FIG. 1

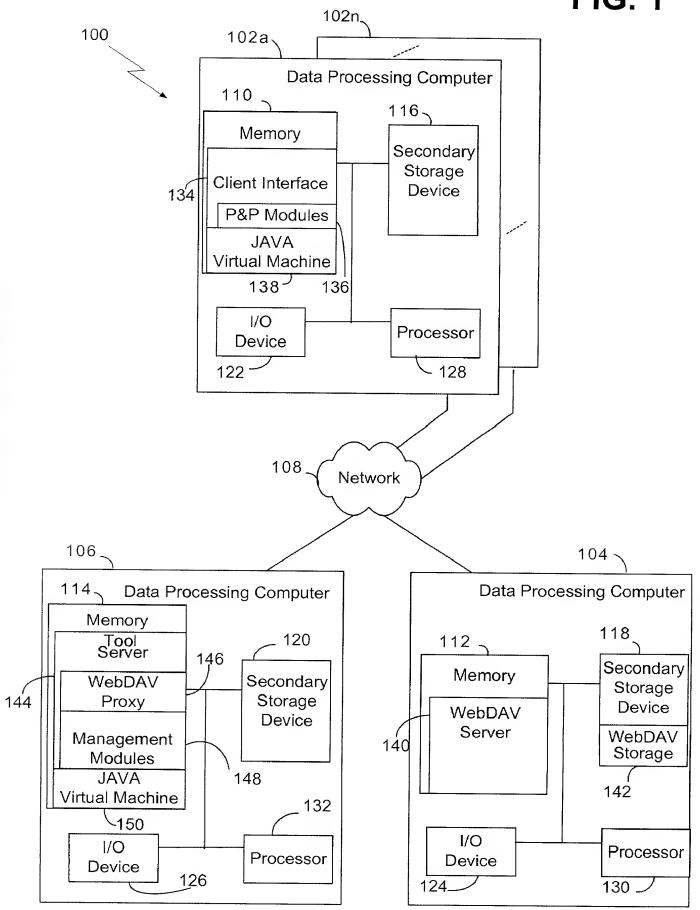

100
102n
102a
Data Processing Computer
110
Memory
116
Secondary Storage Device
134
Client Interface
P&P Modules
JAVA Virtual Machine
138
136
I/O Device
122
Processor
128
108
Network
106
Data Processing Computer
114
Memory
Tool Server
146
120
144
WebDAV Proxy
Secondary Storage Device
Management Modules
148
JAVA Virtual Machine
150
132
I/O Device
Processor
126
104
Data Processing Computer
112
118
Memory
Secondary Storage Device
140
WebDAV Server
WebDAV Storage
142
I/O Device
Processor
124
130

FIG. 2

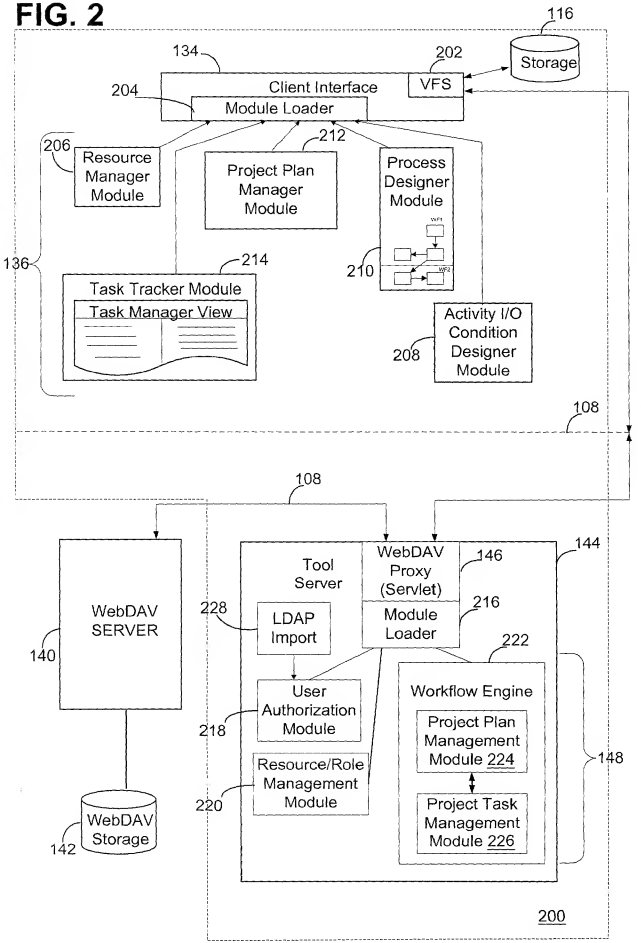

116
Storage
134
202
VFS
204
Client Interface
Module Loader
206
Resource Manager Module
212
Project Plan Manager Module
Process Designer Module
136
214
210
Task Tracker Module
Task Manager View
Activity I/O Condition Designer Module
208
108
108
WebDAV SERVER
140
Tool Server
WebDAV Proxy (Servlet)
146
144
228
LDAP Import
Module Loader
216
222
User Authorization Module
218
Workflow Engine
Project Plan Management Module 224
Resource/Role Management Module
220
Project Task Management Module 226
148
WebDAV Storage
142
200

FIG. 3

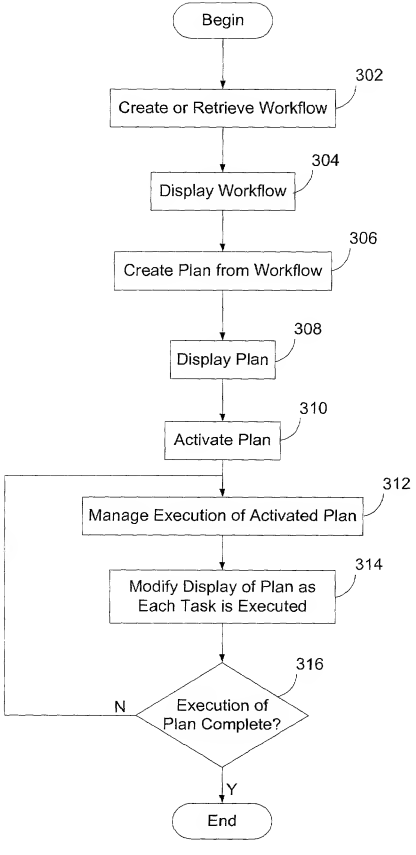

Begin
302
Create or Retrieve Workflow
304
Display Workflow
306
Create Plan from Workflow
308
Display Plan
310
Activate Plan
312
Manage Execution of Activated Plan
314
Modify Display of Plan as Each Task is Executed
316
Execution of Plan Complete?
N
Y
End

FIG. 4

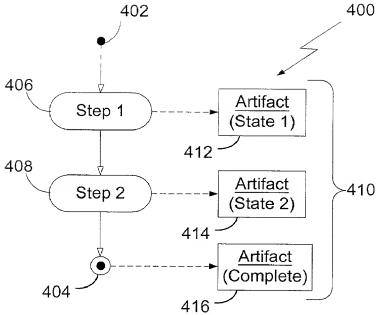

402
400
406
Step 1
Artifact
(State 1)
412
408
Step 2
Artifact
(State 2)
410
414
Artifact
(Complete)
404
416

FIG. 5

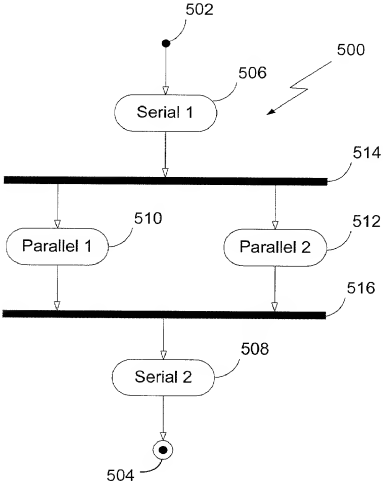
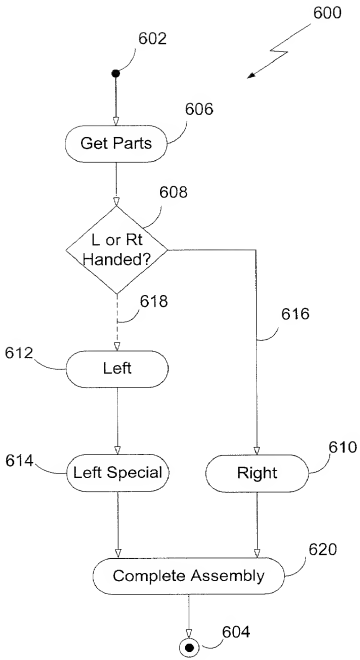

502
500
506
Serial 1
514
510
Parallel 1
Parallel 2
512
516
508
Serial 2
504

FIG. 6


600
602
606
Get Parts
608
L or Rt Handed?
618
616
612
Left
614
Left Special
Right
610
620
Complete Assembly
604

Template-Updated

FIG. 7

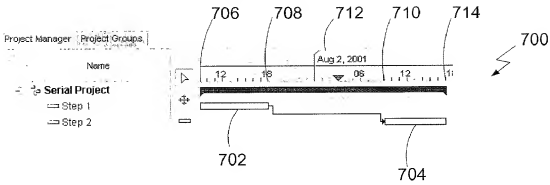


FIG. 8

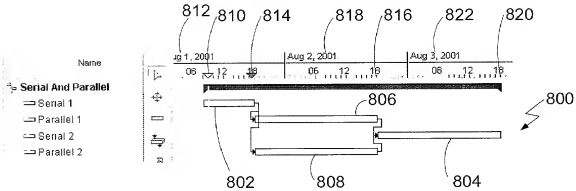


FIG. 9

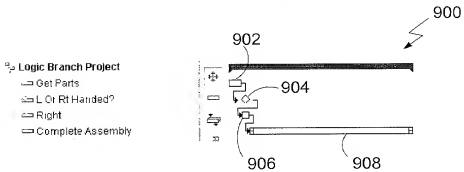


FIG. 10

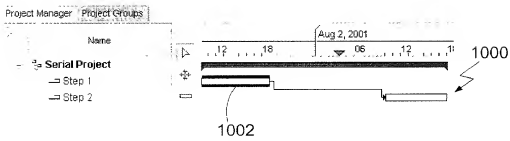


FIG. 11

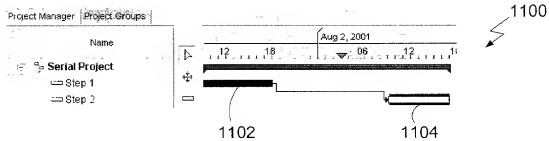


FIG. 12

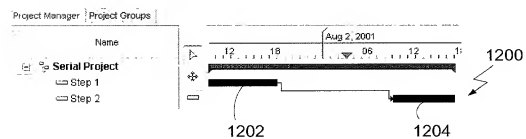


FIG. 13

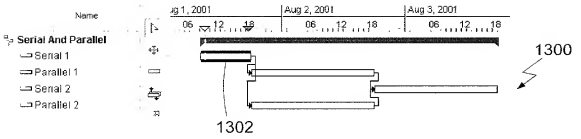


FIG. 14

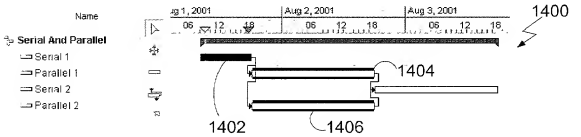


FIG. 15

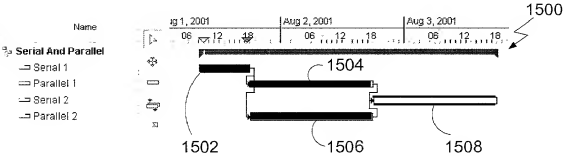


FIG. 16

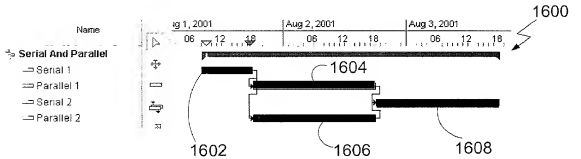


FIG. 17

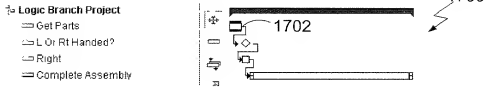


FIG. 18

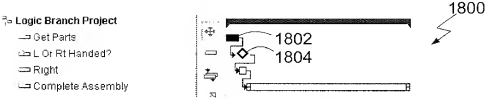


FIG. 19

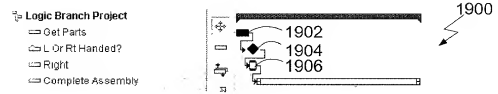


FIG. 20

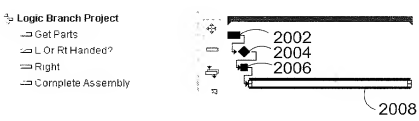


FIG. 21

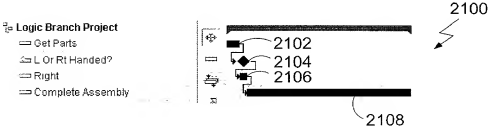


FIG. 22

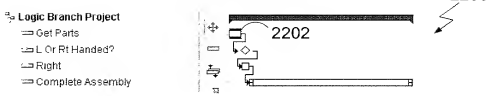


FIG. 23

FIG. 24

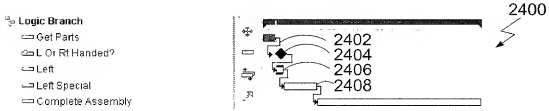


FIG. 25

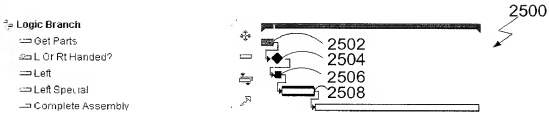


FIG. 26

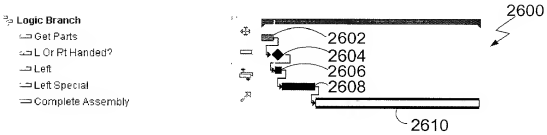


FIG. 27

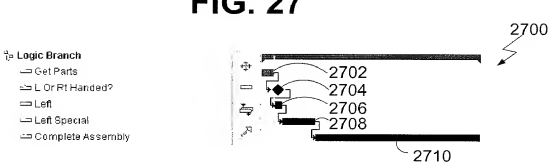


FIG. 28A

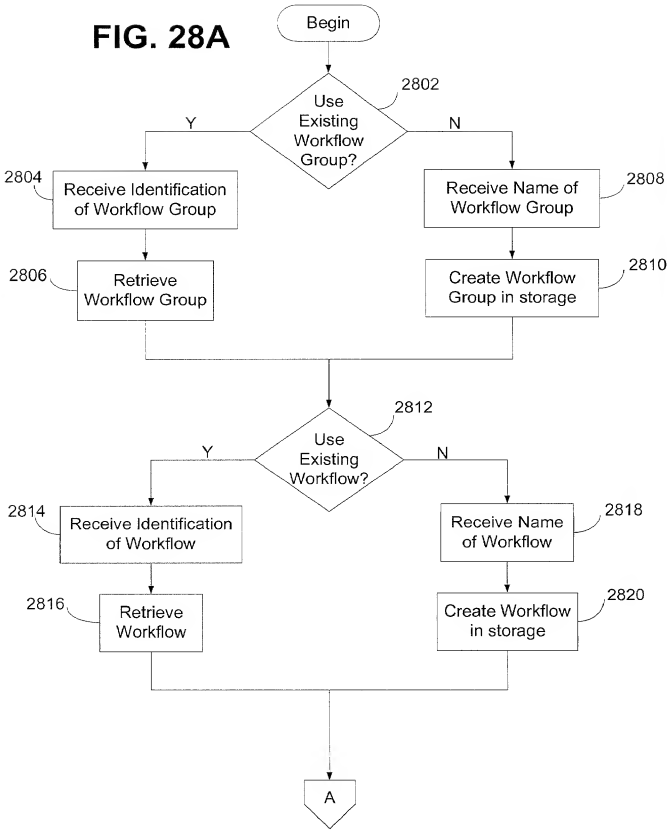

Begin
2802
Use Existing Workflow Group?
Y
N
2804
Receive Identification of Workflow Group
2806
Retrieve Workflow Group
2808
Receive Name of Workflow Group
2810
Create Workflow Group in storage
2812
Use Existing Workflow?
Y
N
2814
Receive Identification of Workflow
2816
Retrieve Workflow
2818
Receive Name of Workflow
2820
Create Workflow in storage
A

FIG. 28B

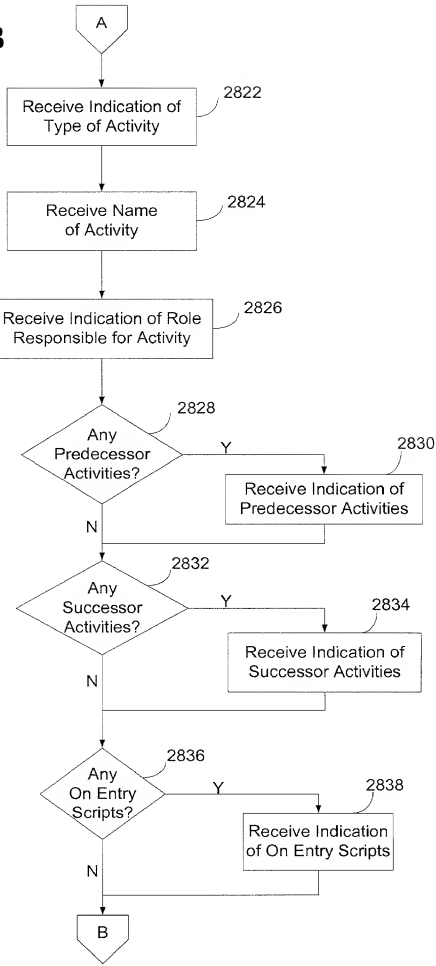

A
Receive Indication of Type of Activity
2822
Receive Name of Activity
2824
Receive Indication of Role Responsible for Activity
2826
Any Predecessor Activities?
2828
Y
Receive Indication of Predecessor Activities
2830
N
Any Successor Activities?
2832
Y
Receive Indication of Successor Activities
2834
N
Any On Entry Scripts?
2836
Y
Receive Indication of On Entry Scripts
2838
N
B

FIG. 28C

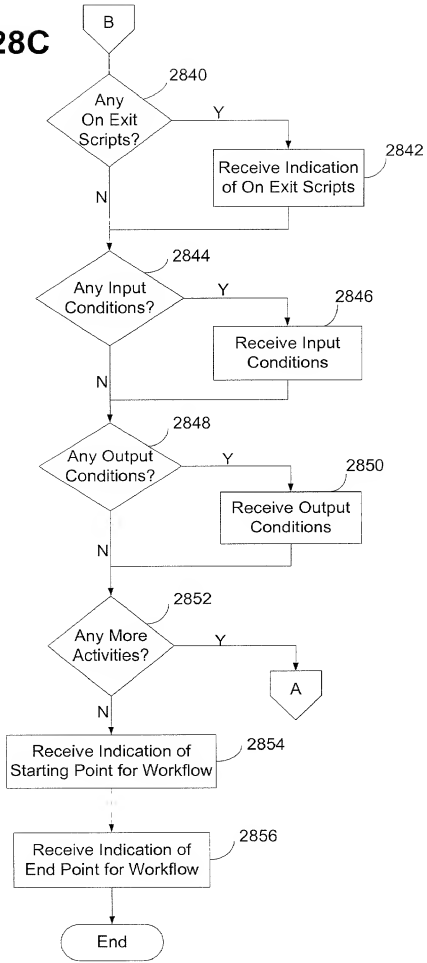


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FIG. 29

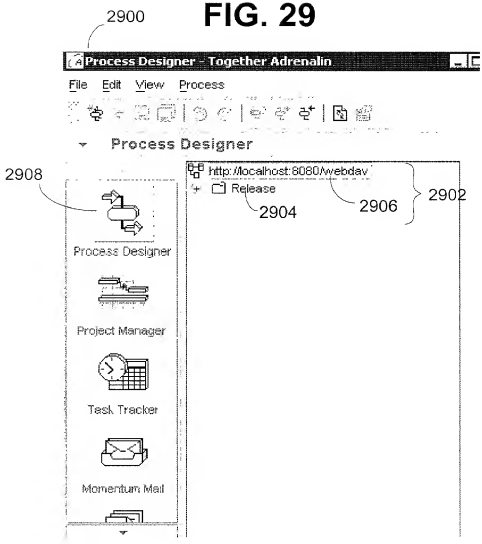

FIG. 30

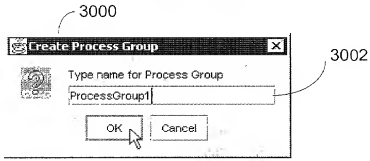

FIG. 31

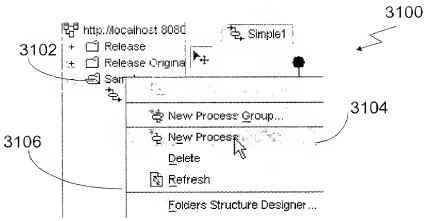
3100
http://localhost:8080
Simple1
Release
Release Original
3102
New Process Group...
New Process
3104
Delete
Refresh
3106
Folders Structure Designer...

FIG. 32

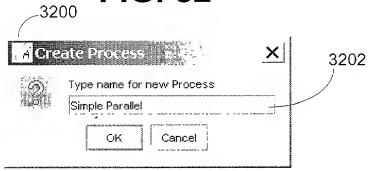
3200
Create Process
Type name for new Process
Simple Parallel
3202
OK
Cancel

FIG. 33A

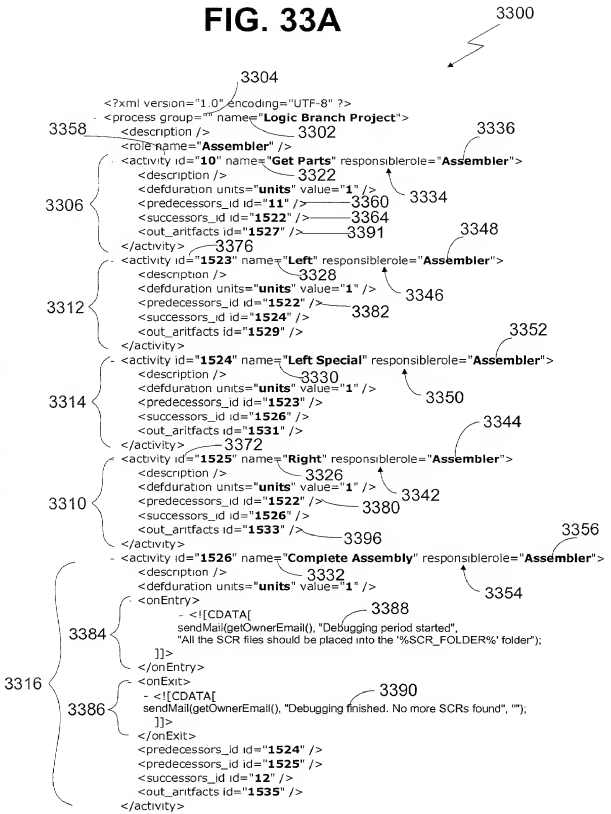
3300
3304
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Logic Branch Project">
<description />
3302
3358
<role name="Assembler" />
3336
<activity id="10" name="Get Parts" responsiblerole="Assembler">
<description />
3322
<defduration units="units" value="1" />
3334
3306
<predecessors_id id="11" />
3360
<successors_id id="1522" />
3364
<out_aritfacts id="1527" />
3391
3348
</activity>
3376
<activity id="1523" name="Left" responsiblerole="Assembler">
<description />
3328
<defduration units="units" value="1" />
3346
3312
<predecessors_id id="1522" />
3382
<successors_id id="1524" />
<out_aritfacts id="1529" />
</activity>
3352
<activity id="1524" name="Left Special" responsiblerole="Assembler">
<description />
3330
<defduration units="units" value="1" />
3350
3314
<predecessors_id id="1523" />
<successors_id id="1526" />
<out_aritfacts id="1531" />
3344
</activity>
3372
<activity id="1525" name="Right" responsiblerole="Assembler">
<description />
3326
<defduration units="units" value="1" />
3342
3310
<predecessors_id id="1522" />
3380
<successors_id id="1526" />
<out_aritfacts id="1533" />
3396
3356
</activity>
<activity id="1526" name="Complete Assembly" responsiblerole="Assembler">
<description />
3332
<defduration units="units" value="1" />
3354
<onEntry>
3388
<![CDATA[
sendMail(getOwnerEmail(), "Debugging period started",
"All the SCR files should be placed into the '%SCR_FOLDER%' folder");
]]>
3384
</onEntry>
3316
<onExit>
<![CDATA[
3390
3386
sendMail(getOwnerEmail(), "Debugging finished. No more SCRs found", "");
]]>
</onExit>
<predecessors_id id="1524" />
<predecessors_id id="1525" />
<successors_id id="12" />
<out_aritfacts id="1535" />
</activity>

FIG. 33B

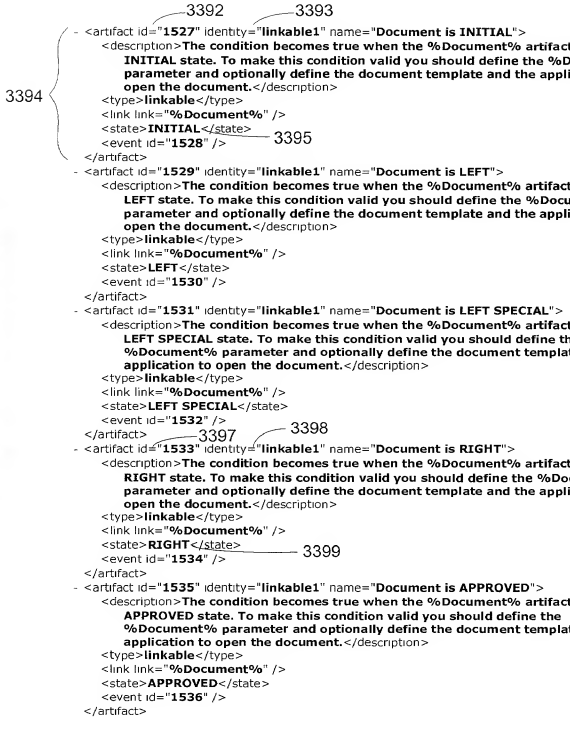
3392
3393
3394
3395
3397
3398
3399
- <artifact id="1527" identity="linkable1" name="Document is INITIAL">
<description>The condition becomes true when the %Document% artifact gets the INITIAL state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
<type>linkable</type>
<link link="%Document%" />
<state>INITIAL</state>
<event id="1528" />
</artifact>
- <artifact id="1529" identity="linkable1" name="Document is LEFT">
<description>The condition becomes true when the %Document% artifact gets the LEFT state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
<type>linkable</type>
<link link="%Document%" />
<state>LEFT</state>
<event id="1530" />
</artifact>
- <artifact id="1531" identity="linkable1" name="Document is LEFT SPECIAL">
<description>The condition becomes true when the %Document% artifact gets the LEFT SPECIAL state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
<type>linkable</type>
<link link="%Document%" />
<state>LEFT SPECIAL</state>
<event id="1532" />
</artifact>
- <artifact id="1533" identity="linkable1" name="Document is RIGHT">
<description>The condition becomes true when the %Document% artifact gets the RIGHT state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
<type>linkable</type>
<link link="%Document%" />
<state>RIGHT</state>
<event id="1534" />
</artifact>
- <artifact id="1535" identity="linkable1" name="Document is APPROVED">
<description>The condition becomes true when the %Document% artifact gets the APPROVED state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
<type>linkable</type>
<link link="%Document%" />
<state>APPROVED</state>
<event id="1536" />
</artifact>

FIG. 33C

3366
3340
<logic id="1522" name="L or Rt Handed?" responsiblerole="Assembler">
3324
3338
<description />
<script>
<![CDATA[
approved()
]]>
</script>
3308
<predecessors_id id="10" />
3368
<other_path_id id="1525" />
3370
<other_path_id id="1523" />
3374
<defpath_id id="1525" />
3378
</logic>
<syncbar id="11">
3362
<description />
3318
<startBar>T</startBar>
<successors_id id="10" />
</syncbar>
<syncbar id="12">
<description />
3320
<endBar>T</endBar>
<predecessors_id id="1526" />
</syncbar>
<event id="1528" name="??Event_name">
<description>??Event_desc</description>
<type>REQUEST-GUARD</type>
<request>PROPPATCH</request>
</event>
<event id="1530" name="??Event_name">
<description>??Event_desc</description>
<type>REQUEST-GUARD</type>
<request>PROPPATCH</request>
</event>
<event id="1532" name="??Event_name">
<description>??Event_desc</description>
<type>REQUEST-GUARD</type>
<request>PROPPATCH</request>
</event>
<event id="1534" name="??Event_name">
<description>??Event_desc</description>
<type>REQUEST-GUARD</type>
<request>PROPPATCH</request>
</event>
<event id="1536" name="??Event_name">
<description>??Event_desc</description>
<type>REQUEST-GUARD</type>
<request>PROPPATCH</request>
</event>
</process>

FIG. 34

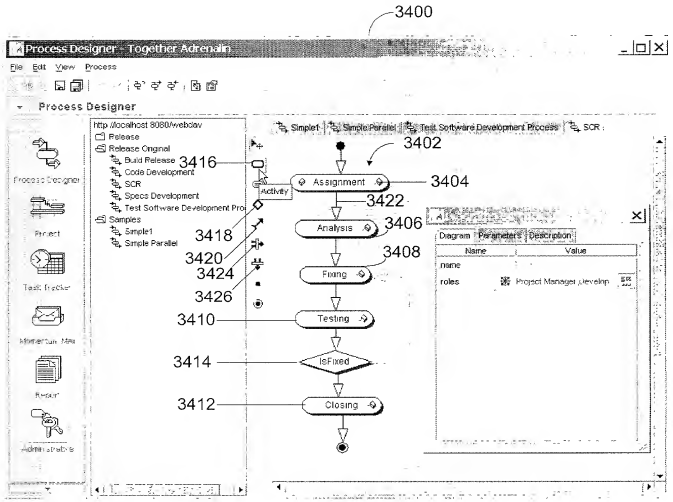
3400
Process Designer - Together Adrenalin
File Edit View Process
Process Designer
http://localhost:8080/webdav
Release
Release Original
Build Release
Code Development
SCR
Specs Development
Test Software Development Pro
Samples
Simple1
Simple Parallel
Simple1 Simple Parallel Test Software Development Process SCR
3416
3418
3420
3424
3426
3402
Assignment
Activity
3404
3422
Analysis
3406
Fixing
3408
Testing
3410
IsFixed
3414
Closing
3412
Diagram Parameters Description
Name Value
name
roles
Project Manager Develop

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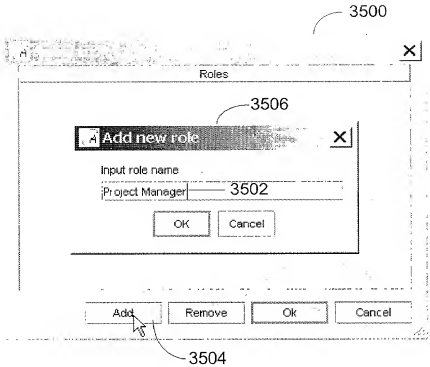
FIG. 35



10456018-100504

FIG. 36

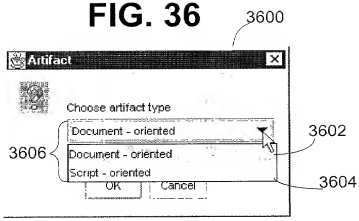


FIG. 37

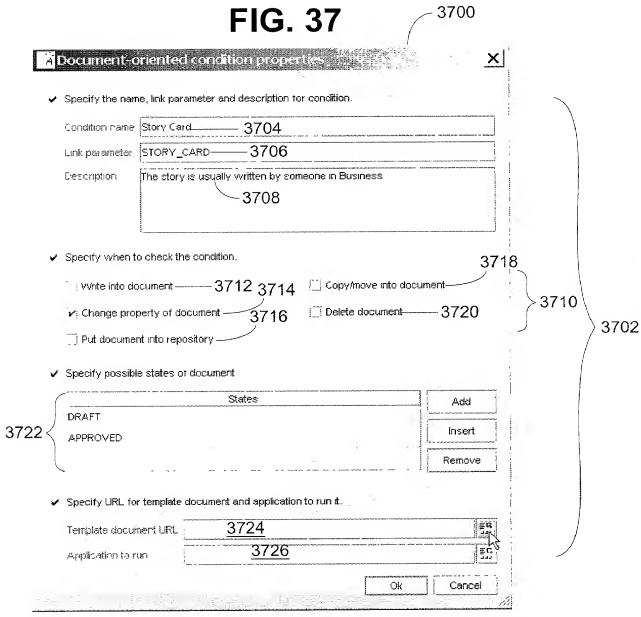


FIG. 38

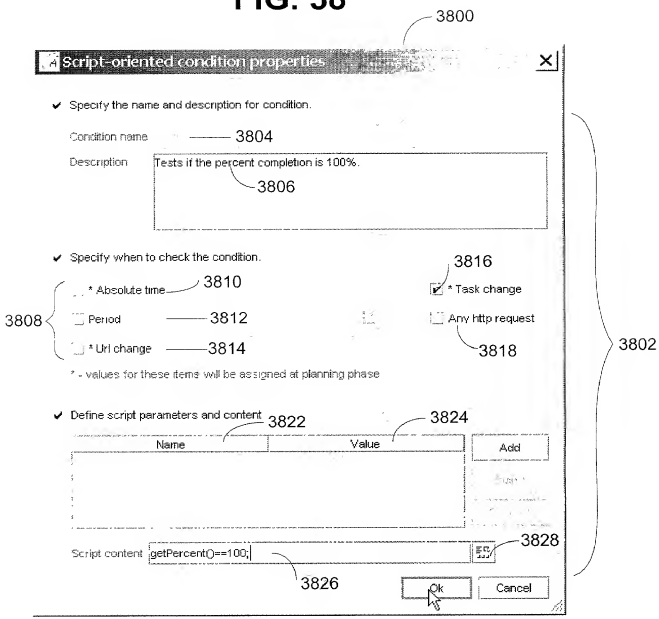

3800
Script-oriented condition properties
Specify the name and description for condition.
Condition name
3804
Description
Tests if the percent completion is 100%.
3806
Specify when to check the condition.
3816
* Absolute time
3810
* Task change
3808
Period
3812
Any http request
* Url change
3814
3818
3802
* - values for these items will be assigned at planning phase
Define script parameters and content
3822
3824
Name
Value
Add
Script content
getPercent()==100;
3828
3826
Ok
Cancel

FIG. 39

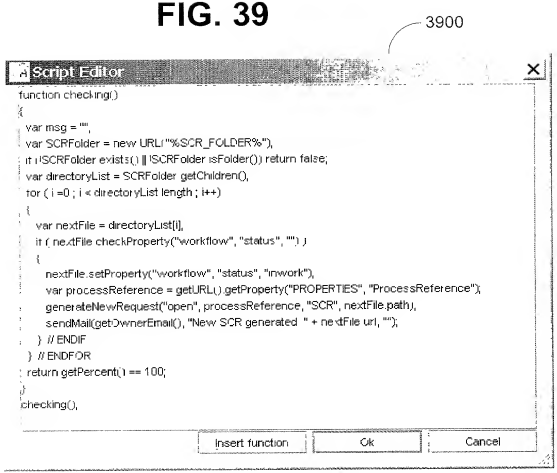

3900
Script Editor
function checking()
{
var msg = "",
var SCRFolder = new URL("%SCR_FOLDER%"),
if (!SCRFolder.exists() || !SCRFolder.isFolder()) return false;
var directoryList = SCRFolder.getChildren(),
for (i =0 ; i < directoryList.length ; i++)
{
var nextFile = directoryList[i],
if (nextFile.checkProperty("workflow", "status", ""))
{
nextFile.setProperty("workflow", "status", "inwork"),
var processReference = getURL().getProperty("PROPERTIES", "ProcessReference");
generateNewRequest("open", processReference, "SCR", nextFile.path),
sendMail(getOwnerEmail(), "New SCR generated " + nextFile.url, "");
} // ENDIF
} // ENDFOR
return getPercent() == 100;
}
checking(),
Insert function
Ok
Cancel

FIG. 40

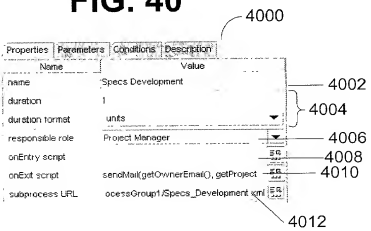

4000
Properties
Parameters
Conditions
Description
Name
Value
name
Specs Development
4002
duration
1
4004
duration format
units
responsible role
Project Manager
4006
onEntry script
4008
onExit script
sendMail(getOwnerEmail(), getProject
4010
subprocess URL
ocessGroup1/Specs_Development.xml
4012

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FIG. 41A

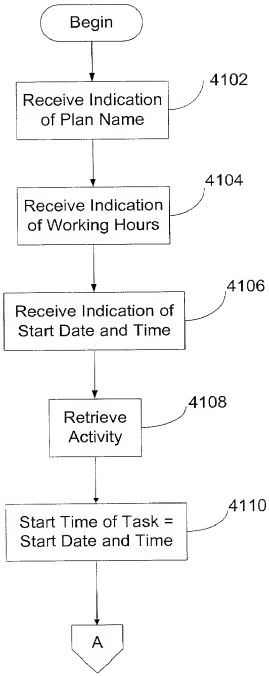


FIG. 41B

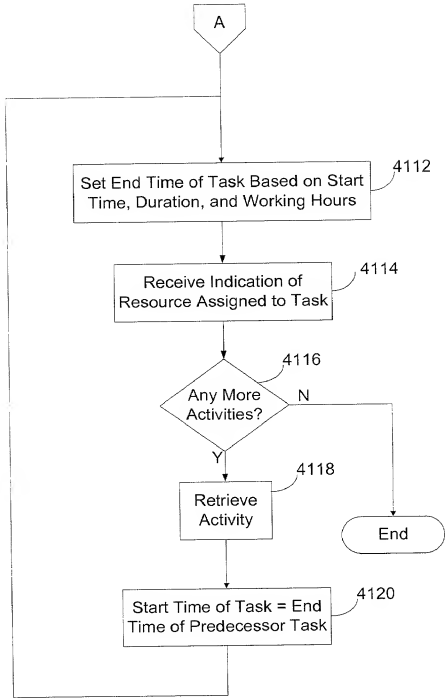

A
Set End Time of Task Based on Start Time, Duration, and Working Hours
4112
Receive Indication of Resource Assigned to Task
4114
4116
Any More Activities?
N
Y
4118
Retrieve Activity
End
Start Time of Task = End Time of Predecessor Task
4120

FIG. 42

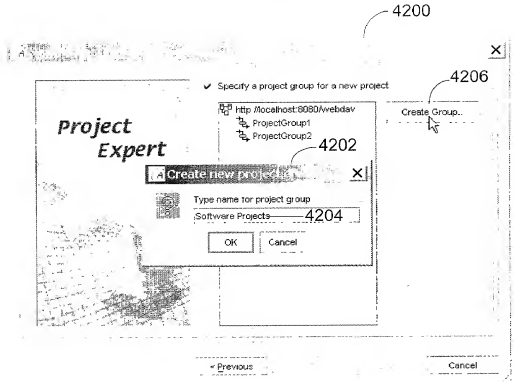


FIG. 43

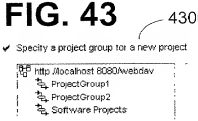


FIG. 44

FIG. 45

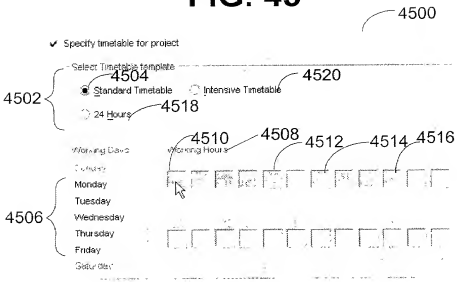
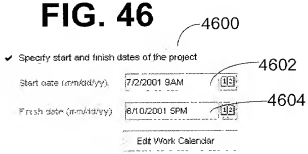

4500
Specify timetable for project
Select Timetable template
4504
4520
4502
Standard Timetable
Intensive Timetable
24 Hours
4518
4510
4508
4512
4514
4516
Working Days
Working Hours
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
4506

FIG. 46


4600
Specify start and finish dates of the project
4602
Start date (m/d/yy)
7/2/2001 9AM
4604
Finish date (m/d/yy)
8/10/2001 5PM
Edit Work Calendar

4700

FIG. 47

```
<?xml version="1.0" encoding="UTF-8" ?>
- <process group="" name="Serial & Parallel">
    <description />
    <role name="Worker" />
  - <activity id="10" name="Serial 1" responsiblerole="Worker">
      <description />
      <defduration units="hours" value="9" />
      <predecessors_id id="11" />
      <successors_id id="1522" />
    </activity>
  - <activity id="1523" name="Parallel 1" responsiblerole="Worker">
      <description />
      <defduration units="hours" value="24" />
      <predecessors_id id="1522" />
      <successors_id id="1525" />
    </activity>
  - <activity id="1524" name="Parallel 2" responsiblerole="Worker">
      <description />
      <defduration units="hours" value="24" />
      <predecessors_id id="1522" />
      <successors_id id="1525" />
    </activity>
  - <activity id="1526" name="Serial 2" responsiblerole="Worker">
      <description />
      <defduration units="hours" value="24" />
      <predecessors_id id="1525" />
      <successors_id id="12" />
    </activity>
  - <syncbar id="11">
      <description />
      <startBar>T</startBar>
      <successors_id id="10" />
    </syncbar>
  - <syncbar id="12">
      <description />
      <endBar>T</endBar>
      <predecessors_id id="1526" />
    </syncbar>
  - <syncbar id="1522" name="SyncBarH1">
      <description />
      <predecessors_id id="10" />
      <successors_id id="1523" />
      <successors_id id="1524" />
    </syncbar>
    <syncbar id="1525" name="SyncBarH2">
      <description />
      <predecessors_id id="1523" />
      <predecessors_id id="1524" />
      <successors_id id="1526" />
    </syncbar>
  </process>
```

4702 4704

4706 4710

4708 4712

4714 4716

FIG. 48

4800

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
 - <A:description>
    - <![CDATA[
    No Description
    ]]>
   </A:description>
 - <A:task activityID="10" caption="Serial 1"
      link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
      type="general" userid="JK">
     <A:start>2001 8 1 9</A:start>                    4804
     <A:finish>2001 8 1 18</A:finish>                 4806
     <A:supertask name="Task_1" />
     <A:user>JK</A:user>
     <A:successor name="Task_3" />
     <A:successor name="Task_4" />
   </A:task>
 - <A:task activityID="1523" caption="Parallel 1"
      link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
      type="general" userid="JK">
     <A:start>2001 8 1 18</A:start>                   4812
     <A:finish>2001 8 2 18</A:finish>                 4816
     <A:supertask name="Task_1" />
     <A:user>JK</A:user>
     <A:predecessor name="Task_2" />
     <A:successor name="Task_5" />
   </A:task>
 - <A:task activityID="1524" caption="Parallel 2"
      link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
      type="general" userid="JK">
     <A:start>2001 8 1 18</A:start>                   4814
     <A:finish>2001 8 2 18</A:finish>                 4818
     <A:supertask name="Task_1" />
     <A:user>JK</A:user>
     <A:predecessor name="Task_2" />
     <A:successor name="Task_5" />
   </A:task>
 - <A:task activityID="1526" caption="Serial 2"
      link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
      type="general" userid="JK">
     <A:start>2001 8 2 18</A:start>                   4822
     <A:finish>2001 8 3 18</A:finish>                 4824
     <A:supertask name="Task_1" />
     <A:user>JK</A:user>
     <A:predecessor name="Task_3" />
     <A:predecessor name="Task_4" />
   </A:task>
 - <A:task activityID="NONE" caption="Serial And Parallel"
      link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
      type="general" userid="JK">
     <A:start>2001 8 1 8</A:start>
     <A:finish>2001 8 3 18</A:finish>
     <A:user>JK</A:user>
     <A:subtask name="Task_2" />
```

4802

4808

4810

4820

Microsoft Exhibit 1004
IPR2013-00450

FIG. 49

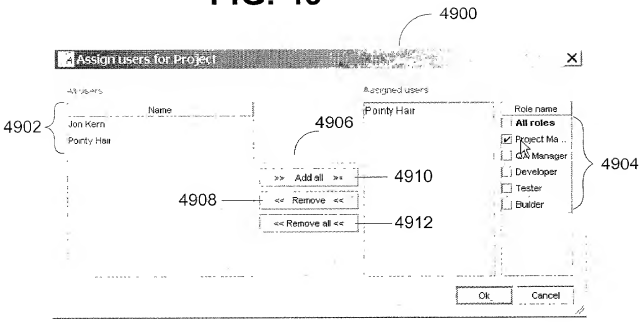

4900
Assign users for Project
All users
Name
Jon Kern
Pointy Hair
4902
Assigned users
Pointy Hair
4906
>> Add all >>
4910
4908
<< Remove <<
<< Remove all <<
4912
Role name
All roles
Project Ma ..
QA Manager
Developer
Tester
Builder
4904
Ok
Cancel

FIG. 50

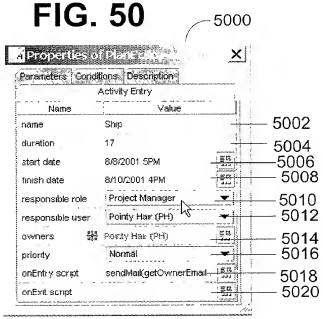

5000
Properties of Plan Step
Parameters
Conditions
Description
Activity Entry
Name
Value
name
Ship
5002
duration
17
5004
start date
8/8/2001 5PM
5006
finish date
8/10/2001 4PM
5008
responsible role
Project Manager
5010
responsible user
Pointy Hair (PH)
5012
owners
Pointy Hair (PH)
5014
priority
Normal
5016
onEntry script
sendMail(getOwnerEmail
5018
onExit script
5020

FIG. 51

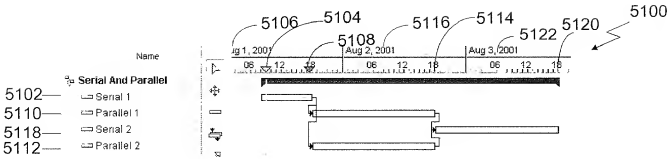

5100
5102
5104
5106
5108
5110
5112
5114
5116
5118
5120
5122
Name
Serial And Parallel
Serial 1
Parallel 1
Serial 2
Parallel 2
Aug 1, 2001
Aug 2, 2001
Aug 3, 2001

FIG. 52

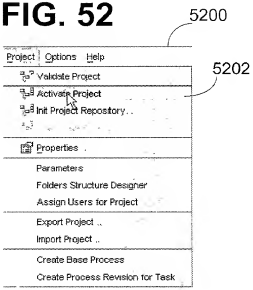
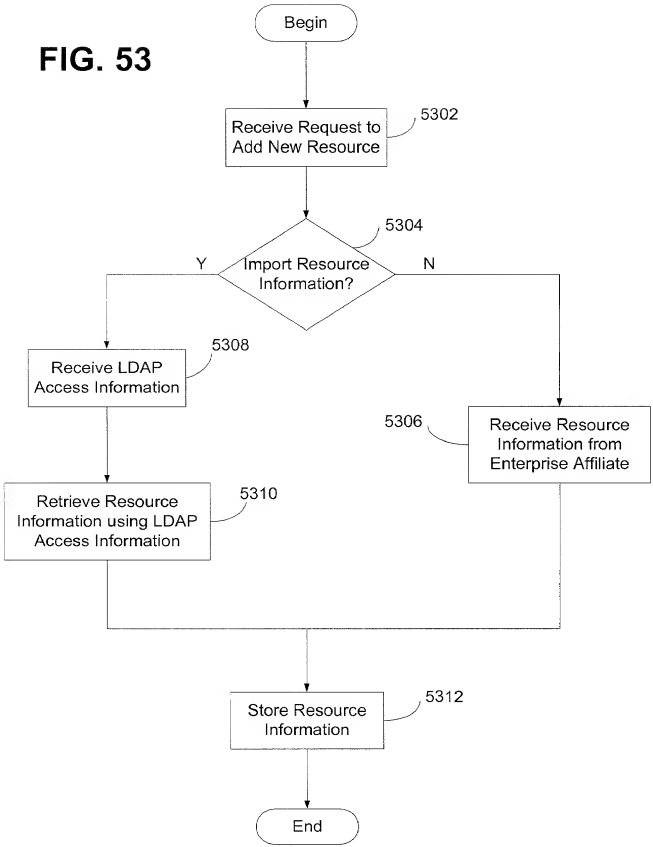

5200
5202
Project
Options
Help
Validate Project
Activate Project
Init Project Repository . .
Properties . .
Parameters
Folders Structure Designer
Assign Users for Project
Export Project . .
Import Project . .
Create Base Process
Create Process Revision for Task

FIG. 53


Begin
Receive Request to Add New Resource
5302
Import Resource Information?
5304
Y
N
Receive LDAP Access Information
5308
Receive Resource Information from Enterprise Affiliate
5306
Retrieve Resource Information using LDAP Access Information
5310
Store Resource Information
5312
End

TOGETHER-T00544620

FIG. 54

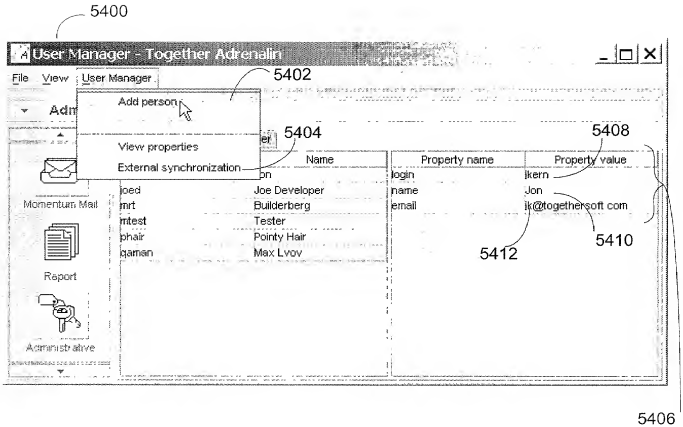


FIG. 55

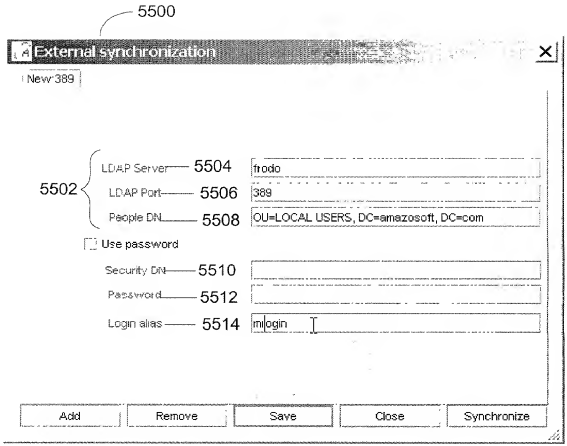

5500
External synchronization
New 389
5502
LDAP Server
5504
frodo
LDAP Port
5506
389
People DN
5508
OU=LOCAL USERS, DC=amazosoft, DC=com
Use password
Security DN
5510
Password
5512
Login alias
5514
mlogin
Add
Remove
Save
Close
Synchronize

FIG. 56

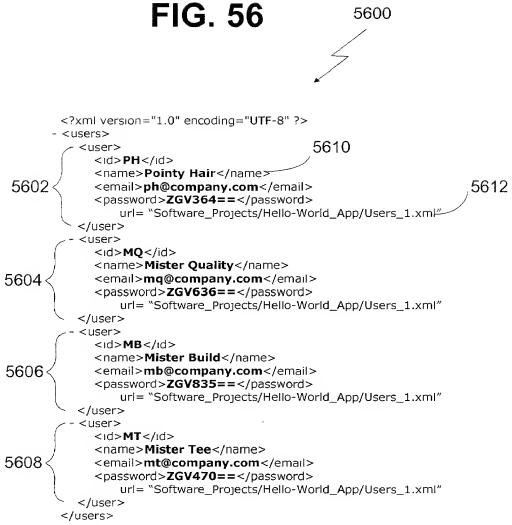

5600
<?xml version="1.0" encoding="UTF-8" ?>
- <users>
- <user>
<id>PH</id>
<name>Pointy Hair</name>
<email>ph@company.com</email>
<password>ZGV364==</password>
url= "Software_Projects/Hello-World_App/Users_1.xml"
</user>
5610
5612
5602
- <user>
<id>MQ</id>
<name>Mister Quality</name>
<email>mq@company.com</email>
<password>ZGV636==</password>
url= "Software_Projects/Hello-World_App/Users_1.xml"
</user>
5604
- <user>
<id>MB</id>
<name>Mister Build</name>
<email>mb@company.com</email>
<password>ZGV835==</password>
url= "Software_Projects/Hello-World_App/Users_1.xml"
</user>
5606
- <user>
<id>MT</id>
<name>Mister Tee</name>
<email>mt@company.com</email>
<password>ZGV470==</password>
url= "Software_Projects/Hello-World_App/Users_1.xml"
</user>
5608
</users>

FIG. 57A

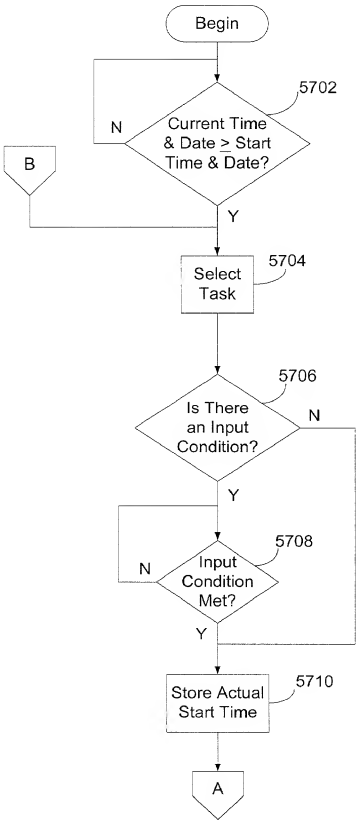

Begin
5702
Current Time & Date ≥ Start Time & Date?
N
Y
B
5704
Select Task
5706
Is There an Input Condition?
N
Y
5708
Input Condition Met?
N
Y
5710
Store Actual Start Time
A

FIG. 57B

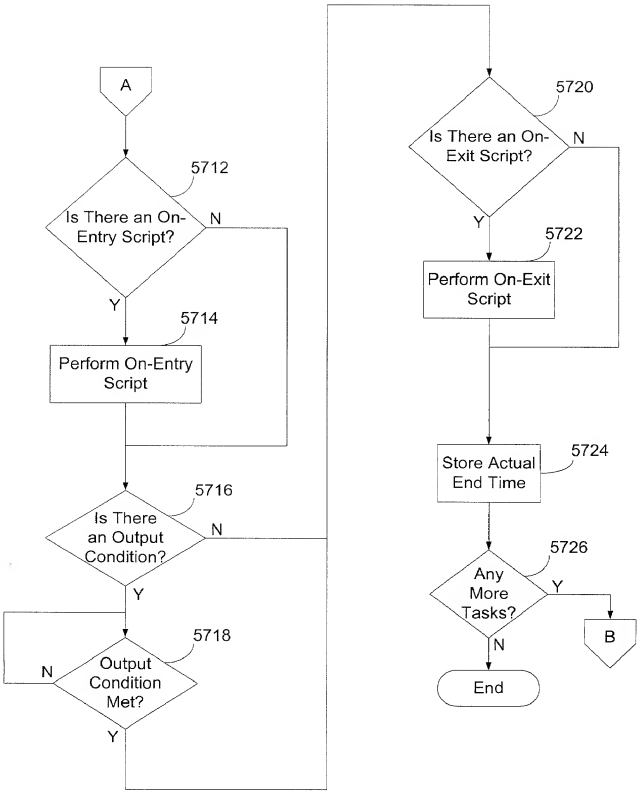

A
5712
Is There an On-Entry Script?
N
Y
5714
Perform On-Entry Script
5716
Is There an Output Condition?
N
Y
5718
Output Condition Met?
N
Y
5720
Is There an On-Exit Script?
N
Y
5722
Perform On-Exit Script
5724
Store Actual End Time
5726
Any More Tasks?
Y
B
N
End

FIG. 58

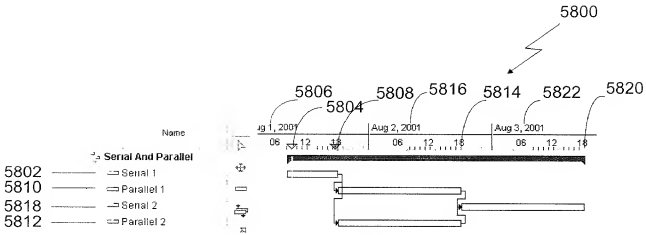

5800
5806
5808
5816
5814
5822
5820
5804
Name
Serial And Parallel
5802
Serial 1
5810
Parallel 1
5818
Serial 2
5812
Parallel 2
Aug 1, 2001
Aug 2, 2001
Aug 3, 2001
06
12
18

FIG. 59

5900

```
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  - <A:description>
      - <![CDATA[
      No Description
      ]]>
    </A:description>
  - <A:task activityID="10" caption="Serial 1"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 8</A:start>
      <A:finish>2001 8 1 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:successor name="Task_3" />
      <A:successor name="Task_4" />
    </A:task>
  - <A:task activityID="1523" caption="Parallel 1"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 18</A:start>
      <A:finish>2001 8 2 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_2" />
      <A:successor name="Task_5" />
    </A:task>
  - <A:task activityID="1524" caption="Parallel 2"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 18</A:start>
      <A:finish>2001 8 2 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_2" />
      <A:successor name="Task_5" />
    </A:task>
  - <A:task activityID="1526" caption="Serial 2"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 2 18</A:start>
      <A:finish>2001 8 3 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_3" />
      <A:predecessor name="Task_4" />
    </A:task>
  - <A:task activityID="NONE" caption="Serial And Parallel"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 8</A:start>
      <A:finish>2001 8 3 18</A:finish>
      <A:user>JK</A:user>
      <A:subtask name="Task_2" />
```

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FIG. 60

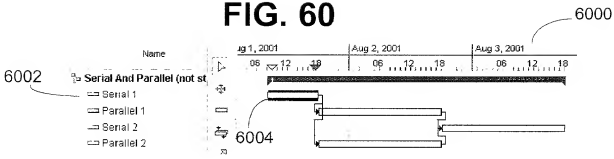

FIG. 61

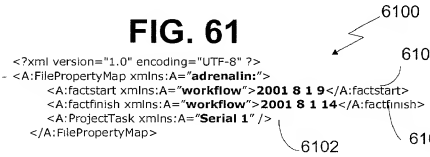

FIG. 62

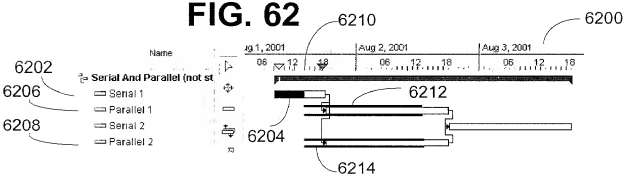

FIG. 63

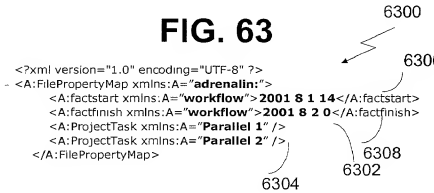

FIG. 64

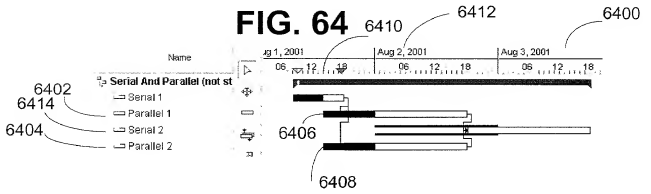

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FIG. 65

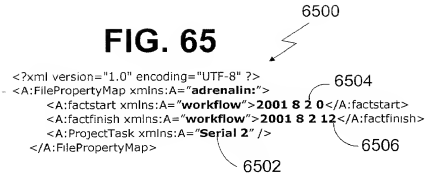

FIG. 66

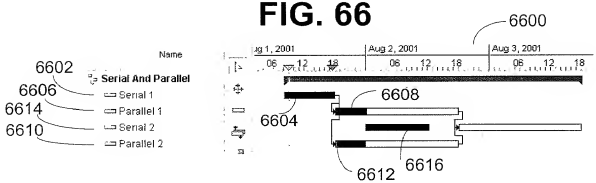

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FIG. 67A

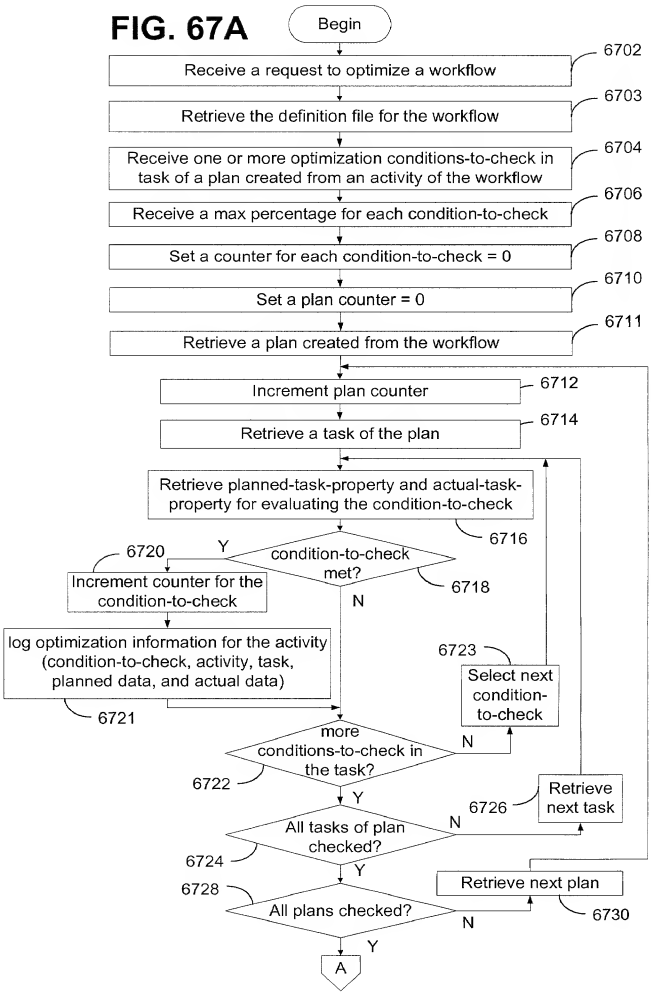


FIG. 67B

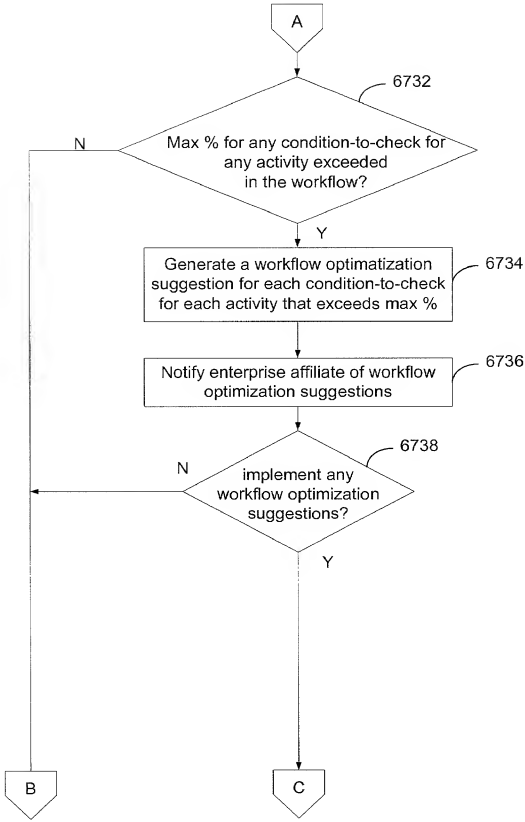
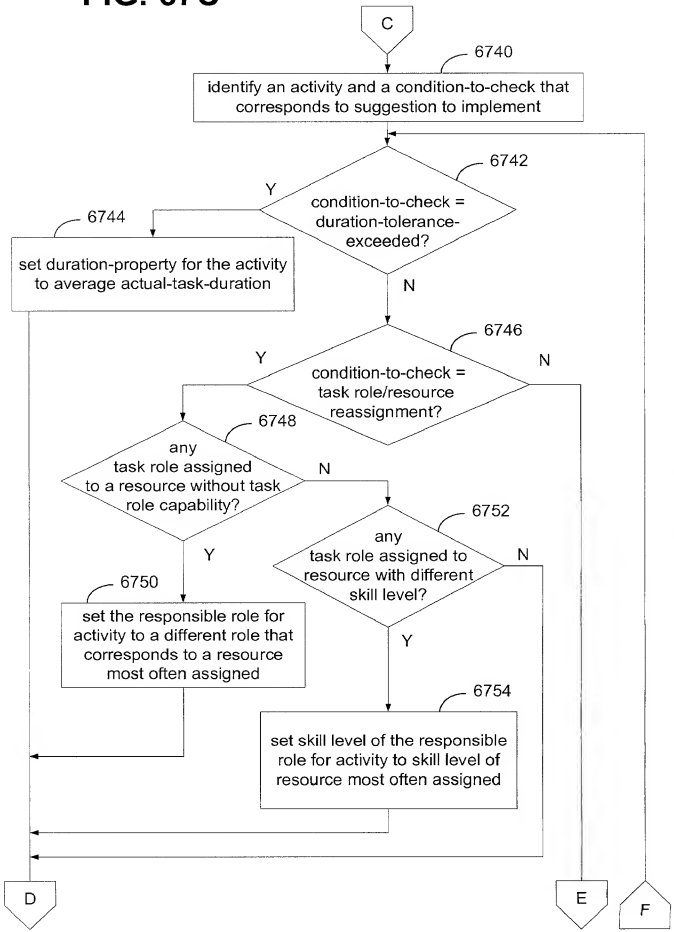

A
6732
Max % for any condition-to-check for any activity exceeded in the workflow?
N
Y
Generate a workflow optimatization suggestion for each condition-to-check for each activity that exceeds max %
6734
Notify enterprise affiliate of workflow optimization suggestions
6736
implement any workflow optimization suggestions?
6738
N
Y
B
C

FIG. 67C


C
6740
identify an activity and a condition-to-check that corresponds to suggestion to implement
6742
condition-to-check = duration-tolerance-exceeded?
Y
N
6744
set duration-property for the activity to average actual-task-duration
6746
condition-to-check = task role/resource reassignment?
Y
N
6748
any task role assigned to a resource without task role capability?
N
Y
6752
any task role assigned to resource with different skill level?
N
Y
6750
set the responsible role for activity to a different role that corresponds to a resource most often assigned
6754
set skill level of the responsible role for activity to skill level of resource most often assigned
D
E
F

PATENT APPLICATION

FIG. 67D

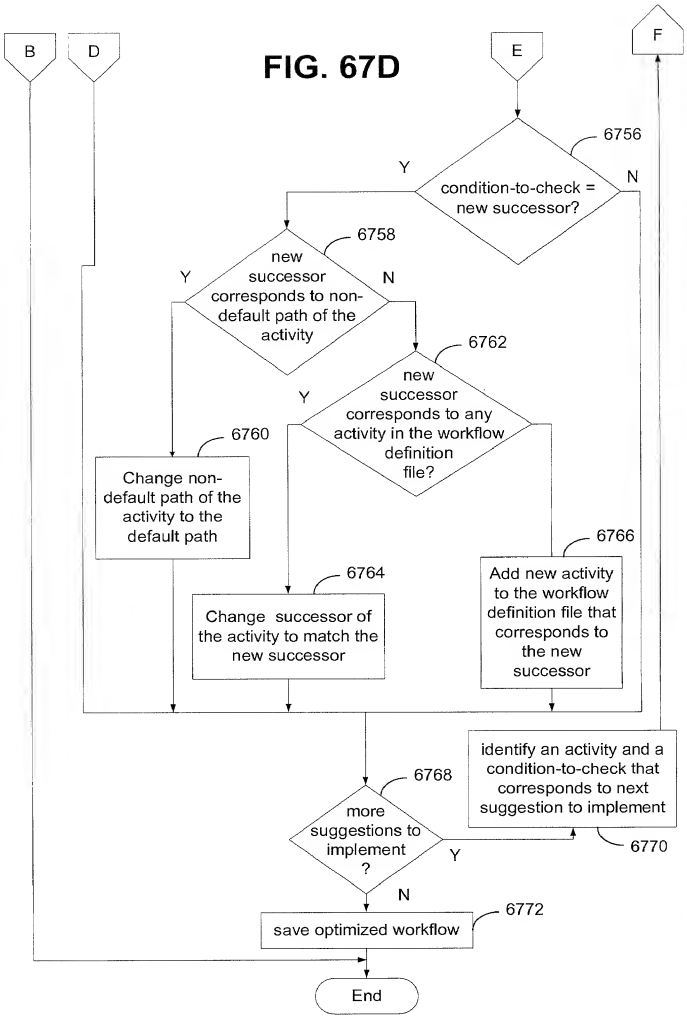


FIG. 68

6800
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
<description />
<role name="Assembler" />
<activity id="10" name="Get Parts" responsiblerole="Assembler" optimize = "yes" minplans ="5" max-percentage = "10"
<description />
<defduration units="units" value="1" tolerance = "1" optimize = "yes" minplans ="5" max-percentage = "10"/>
<predecessors_id id="11" />
<successors_id id="50" optimize = "yes" minplans ="5" max-percentage = "5"/>
<out_artifacts id="1527" />
</activity>
<activity id="51" name="Left" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="54" />
<out_artifacts id="1529" />
</activity>
<activity id="54" name="Left Special" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="51" />
<successors_id id="53" />
<out_artifacts id="1531" />
</activity>
<activity id="52" name="Right" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="53" />
<out_artifacts id="1533" />
</activity>
<activity id="53" name="Complete Assembly" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="54" />
<predecessors_id id="52" />
<successors_id id="12" />
<out_artifacts id="1535" />
</activity>
<logic id="50" name="L Or Rt Handed?" responsiblerole="Assembler">
<description />
<script>
<![CDATA[
approved()
]]>
</script>
<predecessors_id id="10" />
<other_path_id id="52" />
<other_path_id id="51" />
<defpath_id id="52" optimize = "yes" minplans ="5" max-percentage = "5"/>
</logic>
6801
6802
6808
6846
6848
6850
6852
6842
6844
6854
6856
6806
6812
6818
6824
6804
6810
6816
6822
6814
6820
6826
6828
6838
6840
6830
6832
6834
6836

FIG. 69

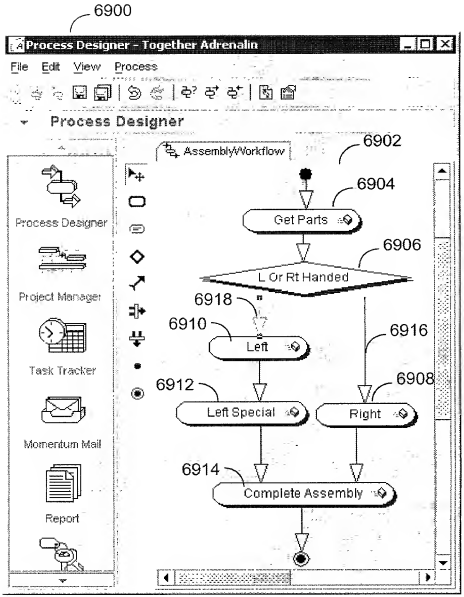

6900
Process Designer - Together Adrenalin
File Edit View Process
Process Designer
AssemblyWorkflow
6902
6904
Get Parts
6906
L Or Rt Handed
6918
6910
Left
6916
6912
Left Special
Right
6908
6914
Complete Assembly
Process Designer
Project Manager
Task Tracker
Momentum Mail
Report

FIG. 70

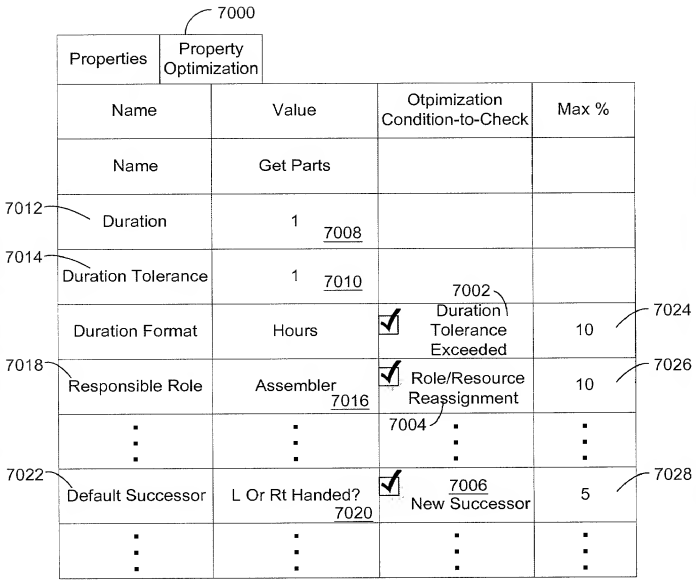

7000
Properties
Property Optimization
Name
Value
Otpimization Condition-to-Check
Max %
Name
Get Parts
7012
Duration
1
7008
7014
Duration Tolerance
1
7010
7002
Duration Tolerance Exceeded
7024
10
Duration Format
Hours
7018
Responsible Role
Assembler
7016
Role/Resource Reassignment
7026
10
7004
7022
Default Successor
L Or Rt Handed?
7020
7006
New Successor
7028
5

FIG. 71A

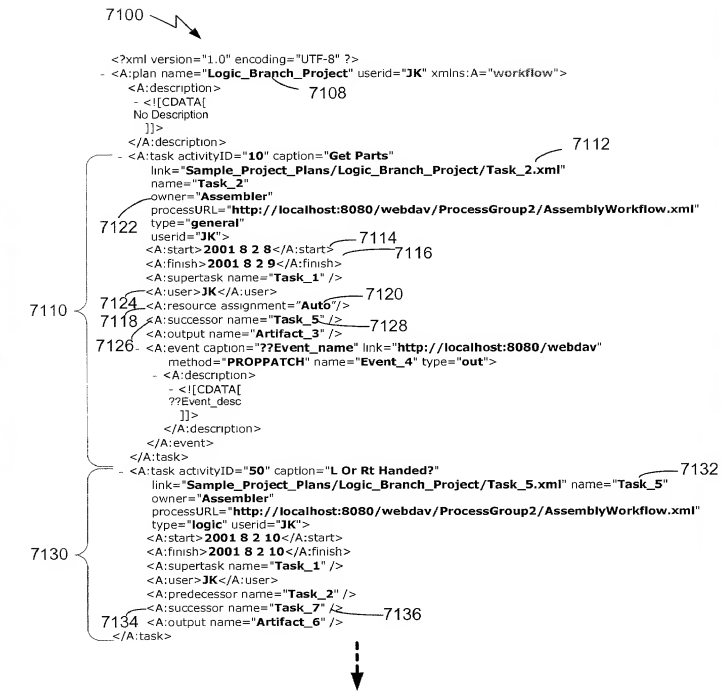

7100
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
<A:description>
- <![CDATA[
No Description
]]>
</A:description>
7108
7112
- <A:task activityID="10" caption="Get Parts"
link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
name="Task_2"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general"
userid="JK">
7122
<A:start>2001 8 2 8</A:start>
7114
7116
<A:finish>2001 8 2 9</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
7120
7110
7124
<A:resource assignment="Auto" />
7118
<A:successor name="Task_5" />
7128
<A:output name="Artifact_3" />
7126
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_4" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="50" caption="L Or Rt Handed?"
7132
link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="logic" userid="JK">
<A:start>2001 8 2 10</A:start>
7130
<A:finish>2001 8 2 10</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_7" />
7136
7134
<A:output name="Artifact_6" />
</A:task>

FIG. 71B

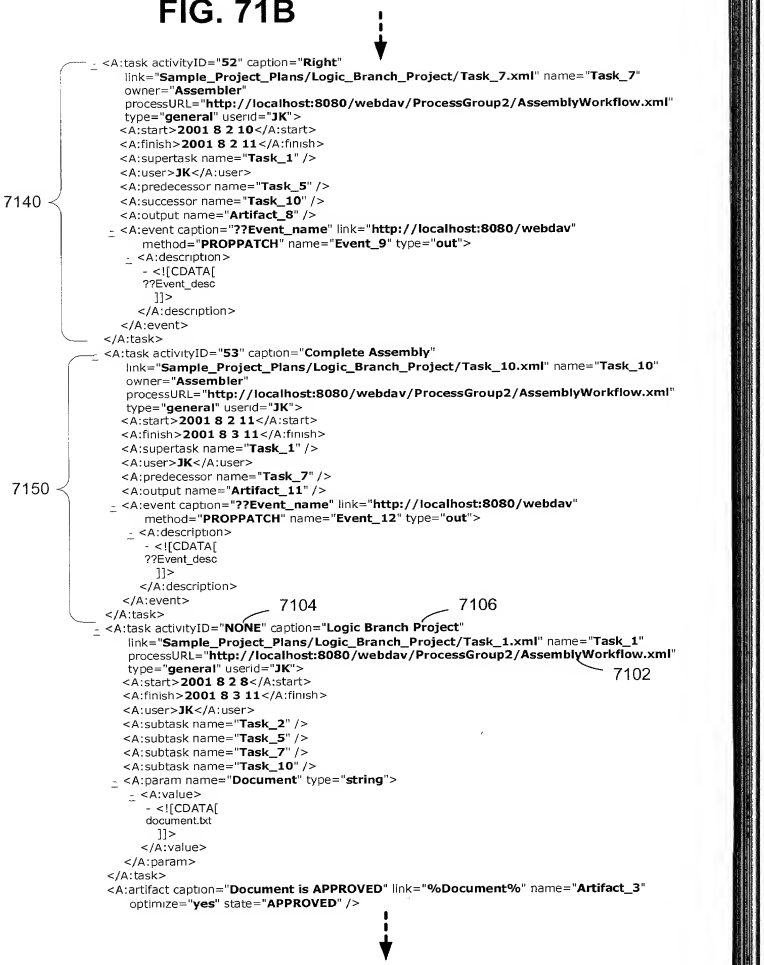

7140
7150
7104
7106
7102
- <A:task activityID="52" caption="Right"
link="Sample_Project_Plans/Logic_Branch_Project/Task_7.xml" name="Task_7"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general" userid="JK">
<A:start>2001 8 2 10</A:start>
<A:finish>2001 8 2 11</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_5" />
<A:successor name="Task_10" />
<A:output name="Artifact_8" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_9" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="53" caption="Complete Assembly"
link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general" userid="JK">
<A:start>2001 8 2 11</A:start>
<A:finish>2001 8 3 11</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_7" />
<A:output name="Artifact_11" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_12" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="NONE" caption="Logic Branch Project"
link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general" userid="JK">
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 3 11</A:finish>
<A:user>JK</A:user>
<A:subtask name="Task_2" />
<A:subtask name="Task_5" />
<A:subtask name="Task_7" />
<A:subtask name="Task_10" />
- <A:param name="Document" type="string">
- <A:value>
- <![CDATA[
document.txt
]]>
</A:value>
</A:param>
</A:task>
<A:artifact caption="Document is APPROVED" link="%Document%" name="Artifact_3"
optimize="yes" state="APPROVED" />
US 7,134,080 B2

FIG. 72

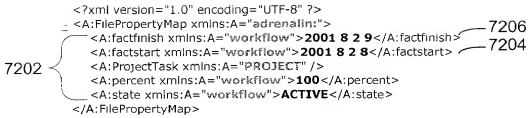


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FIG. 73A

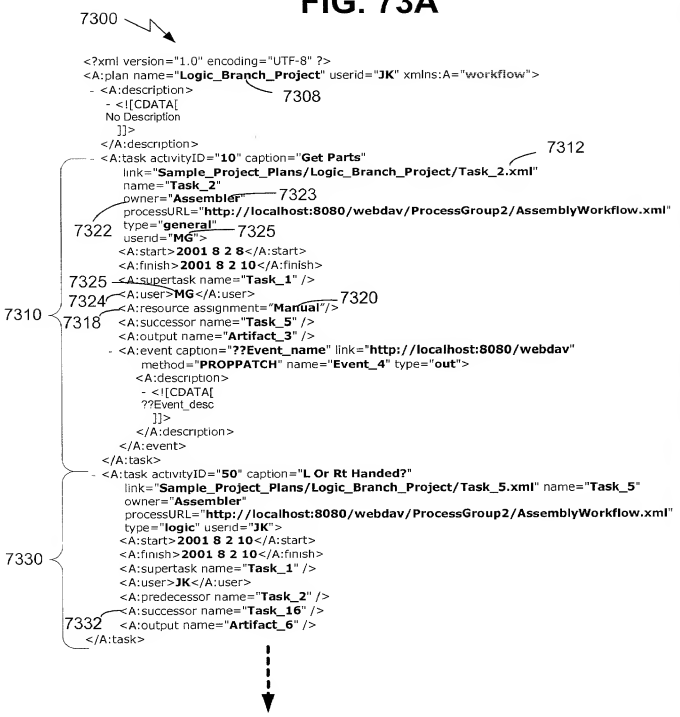
7300
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
- <A:description>
- <![CDATA[
No Description
]]>
</A:description>
7308
7312
- <A:task activityID="10" caption="Get Parts"
link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
name="Task_2"
owner="Assembler"
7323
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general"
7322
userid="MG">
7325
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 2 10</A:finish>
7325
<A:supertask name="Task_1" />
7324
<A:user>MG</A:user>
7320
7310
<A:resource assignment="Manual"/>
7318
<A:successor name="Task_5" />
<A:output name="Artifact_3" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_4" type="out">
<A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="50" caption="L Or Rt Handed?"
link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="logic" userid="JK">
7330
<A:start>2001 8 2 10</A:start>
<A:finish>2001 8 2 10</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_16" />
7332
<A:output name="Artifact_6" />
</A:task>

FIG. 73B

7350
<A:task activityID="53" caption="Complete Assembly"
link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 16</A:start>
<A:finish>2001 8 3 16</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_19" />
<A:output name="Artifact_11" />
<A:output name="Artifact_22" />
<A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_15" type="out">
<A:description>
<![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
<A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_23" type="out">
<A:description>
<![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
<A:task activityID="NONE" caption="Logic Branch Project"
link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 3 16</A:finish>
<A:user>JK</A:user>
<A:subtask name="Task_2" />
<A:subtask name="Task_5" />
<A:subtask name="Task_10" />
<A:subtask name="Task_16" />
<A:subtask name="Task_19" />
<A:param name="Document" type="string">
<A:value>
<![CDATA[
document.txt
]]>
</A:value>
</A:param>
</A:task>

FIG. 73C

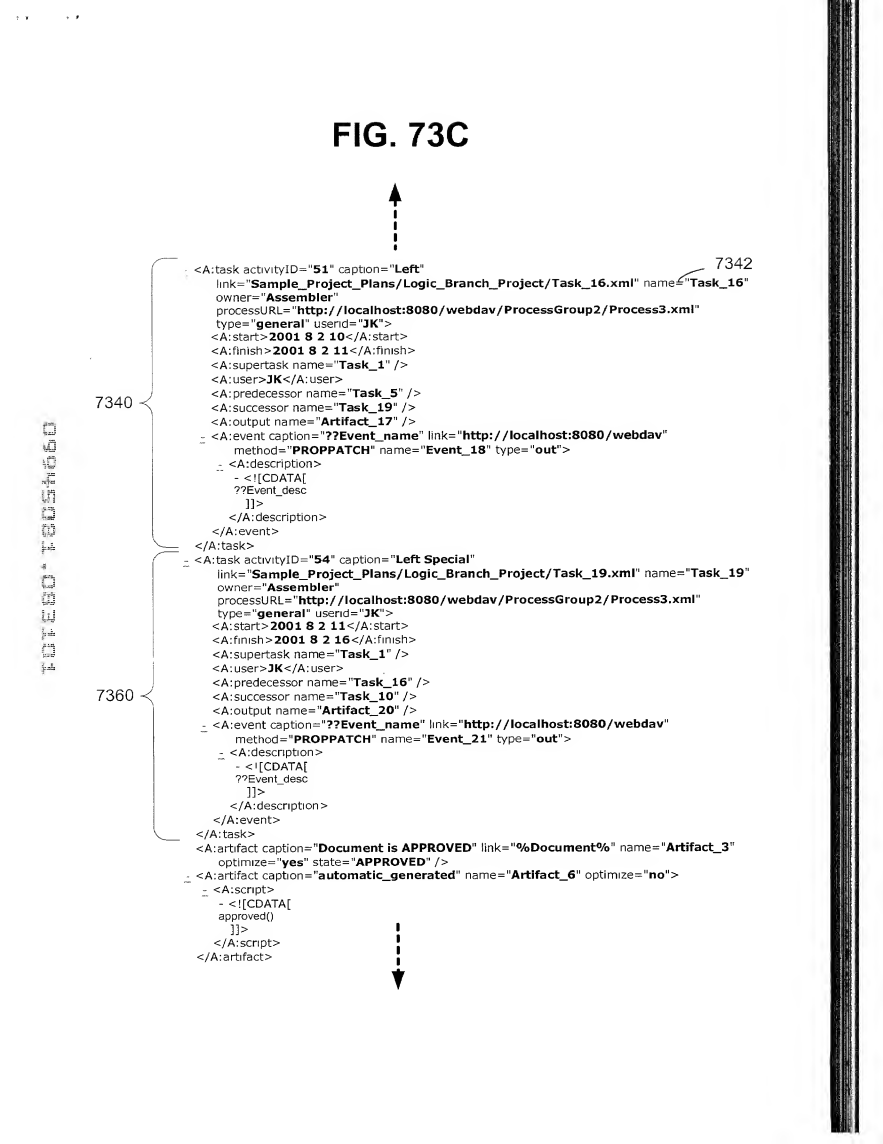
7342
7340
7360
<A:task activityID="51" caption="Left"
link="Sample_Project_Plans/Logic_Branch_Project/Task_16.xml" name="Task_16"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 10</A:start>
<A:finish>2001 8 2 11</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_5" />
<A:successor name="Task_19" />
<A:output name="Artifact_17" />
<A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_18" type="out">
<A:description>
<![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
<A:task activityID="54" caption="Left Special"
link="Sample_Project_Plans/Logic_Branch_Project/Task_19.xml" name="Task_19"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 11</A:start>
<A:finish>2001 8 2 16</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_16" />
<A:successor name="Task_10" />
<A:output name="Artifact_20" />
<A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_21" type="out">
<A:description>
<![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
<A:artifact caption="Document is APPROVED" link="%Document%" name="Artifact_3"
optimize="yes" state="APPROVED" />
<A:artifact caption="automatic_generated" name="Artifact_6" optimize="no">
<A:script>
<![CDATA[
approved()
]]>
</A:script>
</A:artifact>

FIG. 74

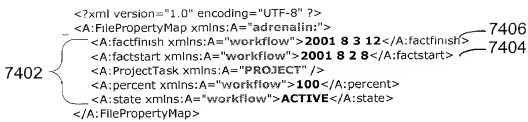

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FIG. 75

7500
7501
7502
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
<description />
<role name="Assembler" />
<activity id="10" name="Get Parts" responsiblerole="Assembler" optimize = "yes" minplans ="5" max-percentage = "10">
<description />
<defduration units="units" value="4" tolerance = "1" optimize = "yes" minplans ="5" max-percentage = "10"/>
<predecessors_id id="11" />
<successors_id id="50" optimize = "yes" minplans ="5" max-percentage = "5"/>
<out_artifacts id="1527" />
</activity>
<activity id="51" name="Left" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="54" />
<out_artifacts id="1529" />
</activity>
<activity id="54" name="Left Special" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="51" />
<successors_id id="53" />
<out_artifacts id="1531" />
</activity>
<activity id="52" name="Right" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="53" />
<out_artifacts id="1533" />
</activity>
<activity id="53" name="Complete Assembly" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="54" />
<predecessors_id id="52" />
<successors_id id="12" />
<out_artifacts id="1535" />
</activity>
<logic id="50" name="L or Rt Handed?" responsiblerole="Assembler">
<description />
<script>
<![CDATA[
approved()
]]>
</script>
<predecessors_id id="10" />
<other_path_id id="52" />
<other_path_id id="51" />
<defpath_id id="52" />
</logic>

FIG. 76

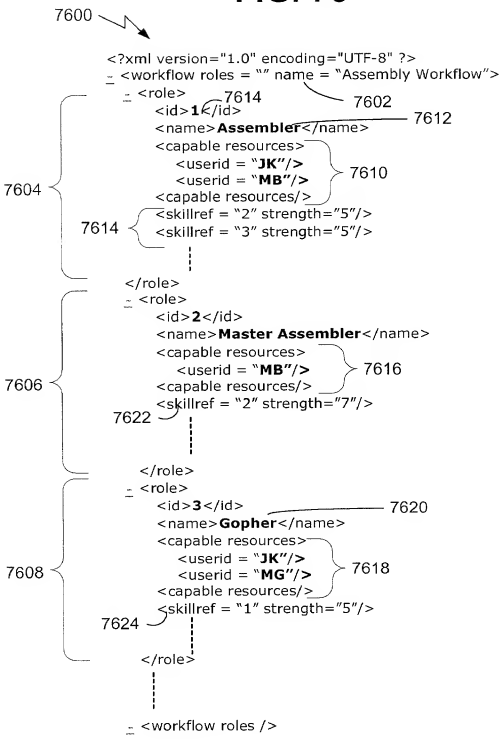

7600
<?xml version="1.0" encoding="UTF-8" ?>
<workflow roles = "" name = "Assembly Workflow">
<role>
7614
7602
<id>1</id>
<name>Assembler</name>
7612
<capable resources>
<userid = "JK"/>
<userid = "MB"/>
7610
7604
<capable resources/>
<skillref = "2" strength="5"/>
7614
<skillref = "3" strength="5"/>
</role>
<role>
<id>2</id>
<name>Master Assembler</name>
<capable resources>
<userid = "MB"/>
7616
7606
<capable resources/>
<skillref = "2" strength="7"/>
7622
</role>
<role>
<id>3</id>
7620
<name>Gopher</name>
<capable resources>
<userid = "JK"/>
<userid = "MG"/>
7618
7608
<capable resources/>
<skillref = "1" strength="5"/>
7624
</role>
<workflow roles />

FIG. 77

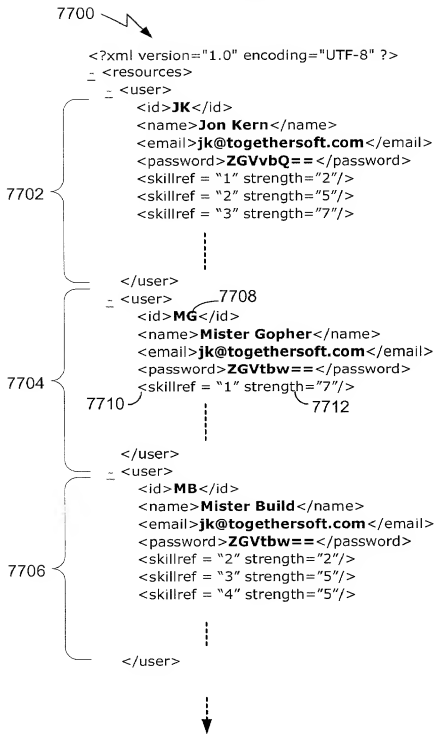

7700
<?xml version="1.0" encoding="UTF-8" ?>
<resources>
<user>
<id>JK</id>
<name>Jon Kern</name>
<email>jk@togethersoft.com</email>
<password>ZGVvbQ==</password>
<skillref = "1" strength="2"/>
<skillref = "2" strength="5"/>
<skillref = "3" strength="7"/>
7702
</user>
<user>
7708
<id>MG</id>
<name>Mister Gopher</name>
<email>jk@togethersoft.com</email>
<password>ZGVtbw==</password>
<skillref = "1" strength="7"/>
7704
7710
7712
</user>
<user>
<id>MB</id>
<name>Mister Build</name>
<email>jk@togethersoft.com</email>
<password>ZGVtbw==</password>
<skillref = "2" strength="2"/>
<skillref = "3" strength="5"/>
<skillref = "4" strength="5"/>
7706
</user>

FIG. 78

7800
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
<description />
<role name="Assembler" />
<role name="Gopher" />
7806
7808
7802
7804
<activity id="10" name="Get Parts" responsiblerole="Gopher" optimize = "yes" minplans ="5" max-percentage = "10">
<description />
<defduration units="units" value="4" tolerance = "1" optimize = "yes" minplans ="5" max-percentage = "10"/>
7801
<predecessors_id id="11" />
<successors_id id="50" optimize = "yes" minplans ="5" max-percentage = "5"/>
<out_artfacts id="1527" />
</activity>
7816
<activity id="51" name="Left" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
7818
<predecessors_id id="50" />
<successors_id id="54" />
<out_artfacts id="1529" />
</activity>
7826
<activity id="54" name="Left Special" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
7820
<predecessors_id id="51" />
<successors_id id="53" />
<out_artfacts id="1531" />
</activity>
7822
<activity id="52" name="Right" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
7824
<predecessors_id id="50" />
<successors_id id="53" />
<out_artfacts id="1533" />
</activity>
<activity id="53" name="Complete Assembly" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="54" />
<predecessors_id id="52" />
<successors_id id="12" />
<out_artfacts id="1535" />
</activity>
<logic id="50" name="L or Rt Handed?" responsiblerole="Assembler">
<description />
<script>
<![CDATA[
approved()
]]>
</script>
7810
7815
<predecessors_id id="10" />
<other_path_id id="52" />
7814
<other_path_id id="51" />
<defpath_id id="51" optimize = "yes" minplans ="5" max-percentage = "5" />
</logic>
7812

FIG. 79

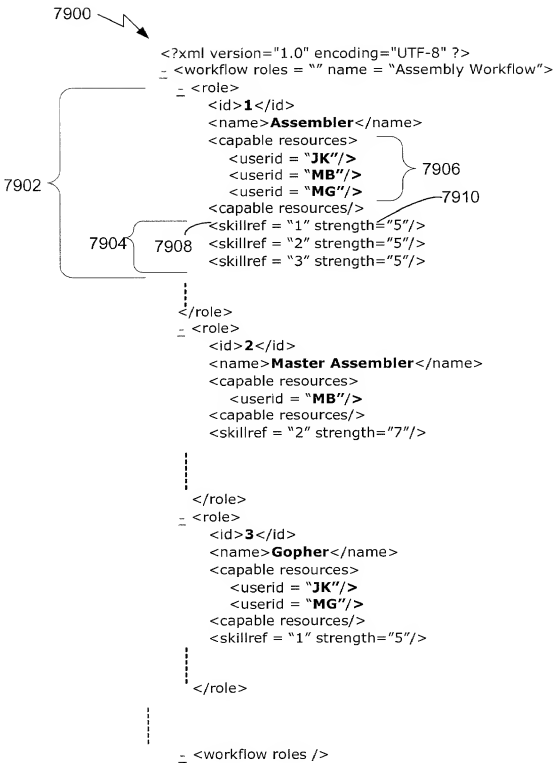

7900
<?xml version="1.0" encoding="UTF-8" ?>
<workflow roles = "" name = "Assembly Workflow">
<role>
<id>1</id>
<name>Assembler</name>
<capable resources>
<userid = "JK"/>
<userid = "MB"/>
<userid = "MG"/>
<capable resources/>
<skillref = "1" strength="5"/>
<skillref = "2" strength="5"/>
<skillref = "3" strength="5"/>
7902
7904
7906
7908
7910
</role>
<role>
<id>2</id>
<name>Master Assembler</name>
<capable resources>
<userid = "MB"/>
<capable resources/>
<skillref = "2" strength="7"/>
</role>
<role>
<id>3</id>
<name>Gopher</name>
<capable resources>
<userid = "JK"/>
<userid = "MG"/>
<capable resources/>
<skillref = "1" strength="5"/>
</role>
<workflow roles />

FIG. 80

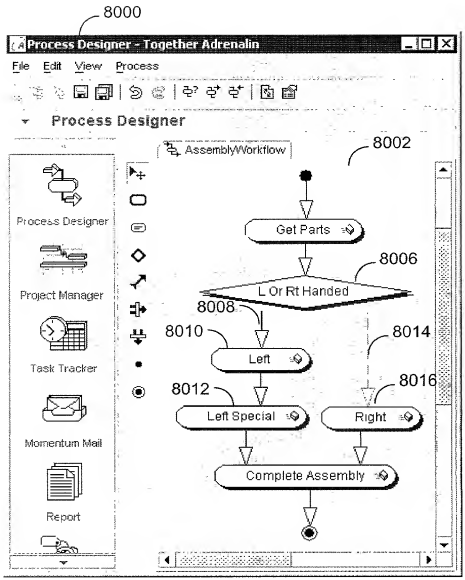

8000
Process Designer - Together Adrenalin
File Edit View Process
Process Designer
Process Designer
Project Manager
Task Tracker
Momentum Mail
Report
AssemblyWorkflow
8002
Get Parts
8006
L Or Rt Handed
8008
8010
Left
8014
8012
Left Special
8016
Right
Complete Assembly

FIG. 81A

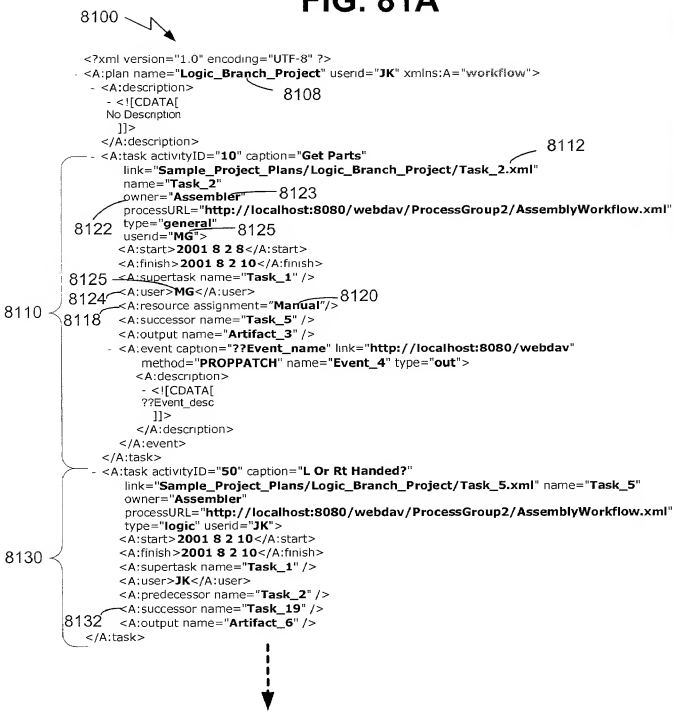

8100
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
<A:description>
<![CDATA[
No Description
]]>
</A:description>
8108
8112
<A:task activityID="10" caption="Get Parts"
link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
name="Task_2"
owner="Assembler"
8123
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
8122
type="general"
8125
userid="MG">
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 2 10</A:finish>
8125
<A:supertask name="Task_1" />
8124
<A:user>MG</A:user>
8120
8110
<A:resource assignment="Manual"/>
8118
<A:successor name="Task_5" />
<A:output name="Artifact_3" />
<A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_4" type="out">
<A:description>
<![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
<A:task activityID="50" caption="L Or Rt Handed?"
link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="logic" userid="JK">
<A:start>2001 8 2 10</A:start>
8130
<A:finish>2001 8 2 10</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_19" />
8132
<A:output name="Artifact_6" />
</A:task>

FIG. 81B

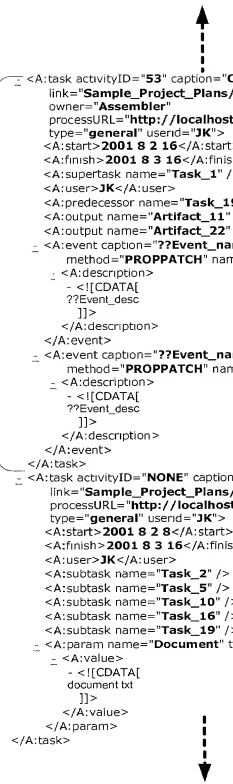

8150
- <A:task activityID="53" caption="Complete Assembly"
link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 16</A:start>
<A:finish>2001 8 3 16</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_19" />
<A:output name="Artifact_11" />
<A:output name="Artifact_22" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_15" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_23" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="NONE" caption="Logic Branch Project"
link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 3 16</A:finish>
<A:user>JK</A:user>
<A:subtask name="Task_2" />
<A:subtask name="Task_5" />
<A:subtask name="Task_10" />
<A:subtask name="Task_16" />
<A:subtask name="Task_19" />
- <A:param name="Document" type="string">
- <A:value>
- <![CDATA[
document txt
]]>
</A:value>
</A:param>
</A:task>

FIG. 81C

8162
8160
- <A:task activityID="54" caption="Left Special"
link="Sample_Project_Plans/Logic_Branch_Project/Task_19.xml" name="Task_19"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
type="general" userid="JK">
<A:start>2001 8 2 10</A:start>
<A:finish>2001 8 2 16</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_5" />
<A:successor name="Task_10" />
<A:output name="Artifact_20" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_21" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
<A:artifact caption="Document is APPROVED" link="%Document%" name="Artifact_3"
optimize="yes" state="APPROVED" />
- <A:artifact caption="automatic_generated" name="Artifact_6" optimize="no">
- <A:script>
- <![CDATA[
approved()
]]>
</A:script>
</A:artifact>

FIG. 82

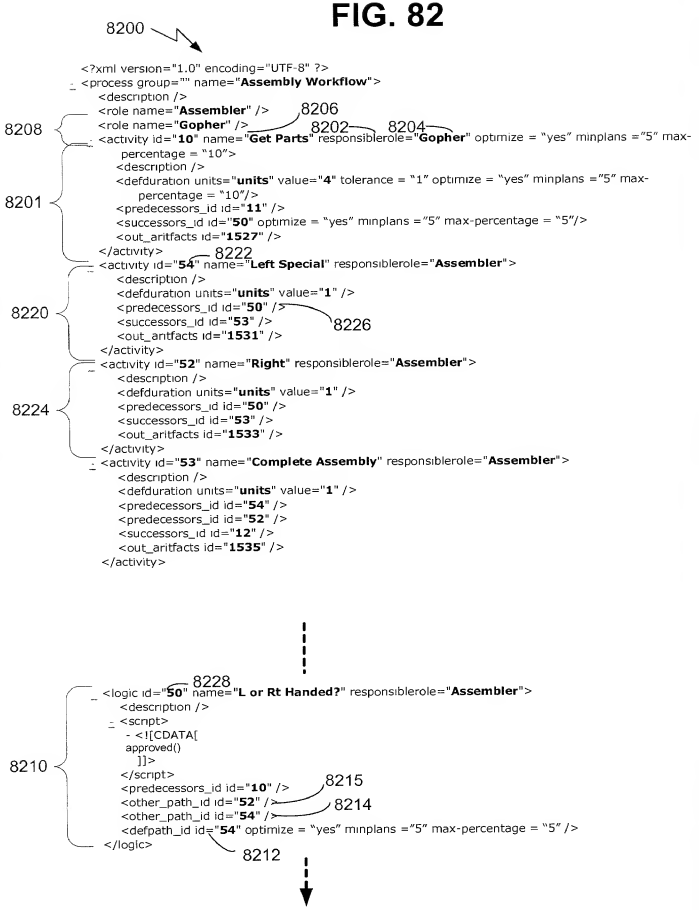

8200
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
<description />
<role name="Assembler" />
<role name="Gopher" />
8206
8208
8202
8204
<activity id="10" name="Get Parts" responsiblerole="Gopher" optimize = "yes" minplans ="5" max-percentage = "10">
<description />
<defduration units="units" value="4" tolerance = "1" optimize = "yes" minplans ="5" max-percentage = "10"/>
8201
<predecessors_id id="11" />
<successors_id id="50" optimize = "yes" minplans ="5" max-percentage = "5"/>
<out_artifacts id="1527" />
</activity>
8222
<activity id="54" name="Left Special" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
8220
<predecessors_id id="50" />
<successors_id id="53" />
8226
<out_artifacts id="1531" />
</activity>
<activity id="52" name="Right" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
8224
<predecessors_id id="50" />
<successors_id id="53" />
<out_artifacts id="1533" />
</activity>
<activity id="53" name="Complete Assembly" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="54" />
<predecessors_id id="52" />
<successors_id id="12" />
<out_artifacts id="1535" />
</activity>
8228
<logic id="50" name="L or Rt Handed?" responsiblerole="Assembler">
<description />
<script>
<![CDATA[
approved()
]]>
8210
</script>
8215
<predecessors_id id="10" />
<other_path_id id="52" />
8214
<other_path_id id="54" />
<defpath_id id="54" optimize = "yes" minplans ="5" max-percentage = "5" />
</logic>
8212

FIG. 83

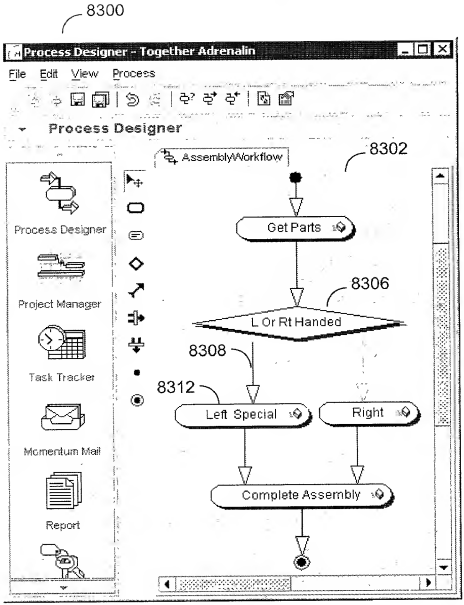

8300
Process Designer - Together Adrenalin
File Edit View Process
Process Designer
Process Designer
Project Manager
Task Tracker
Momentum Mail
Report
AssemblyWorkflow
8302
Get Parts
8306
L Or Rt Handed
8308
8312
Left Special
Right
Complete Assembly

FIG. 84A

8400
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
- <A:description>
- <![CDATA[
No Description
]]>
</A:description>
8408
- <A:task activityID="10" caption="Get Parts"
link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
name="Task_2"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general"
userid="MG">
<A:start>2001 8 7 8</A:start>
<A:finish>2001 8 7 10</A:finish>
<A:supertask name="Task_1" />
<A:user>MG</A:user>
8410
<A:resource assignment="Manual"/>
8418
<A:successor name="Task_20" />
8426
<A:output name="Artifact_3" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_4" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="50" caption="L Or Rt Handed?"
link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="logic" userid="JK">
8420
<A:start>2001 8 7 11</A:start>
<A:finish>2001 8 7 11</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_20" />
<A:successor name="Task_7" />
<A:output name="Artifact_6" />
</A:task>

FIG. 84B

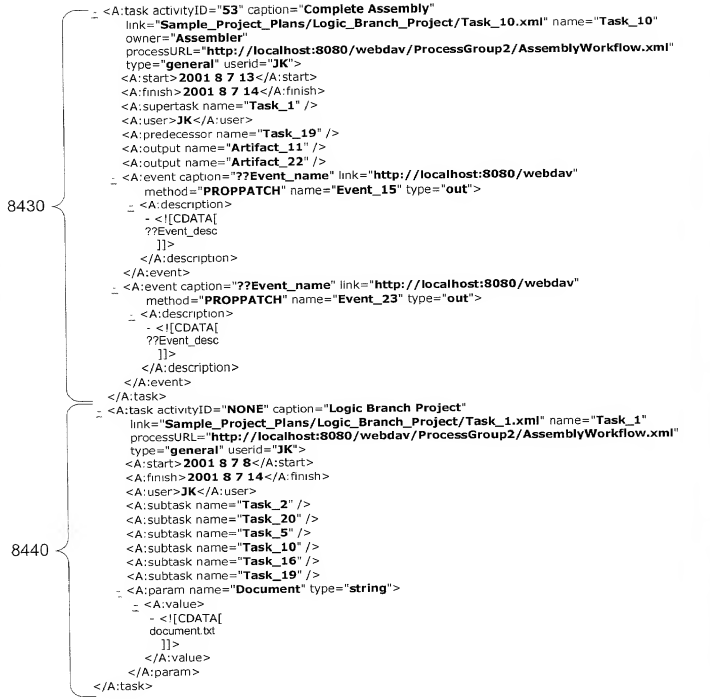

8430
8440
- <A:task activityID="53" caption="Complete Assembly"
link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general" userid="JK">
<A:start>2001 8 7 13</A:start>
<A:finish>2001 8 7 14</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_19" />
<A:output name="Artifact_11" />
<A:output name="Artifact_22" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_15" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_23" type="out">
- <A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="NONE" caption="Logic Branch Project"
link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general" userid="JK">
<A:start>2001 8 7 8</A:start>
<A:finish>2001 8 7 14</A:finish>
<A:user>JK</A:user>
<A:subtask name="Task_2" />
<A:subtask name="Task_20" />
<A:subtask name="Task_5" />
<A:subtask name="Task_10" />
<A:subtask name="Task_16" />
<A:subtask name="Task_19" />
- <A:param name="Document" type="string">
- <A:value>
- <![CDATA[
document.txt
]]>
</A:value>
</A:param>
</A:task>

FIG. 84C

```
- <A:task activityID="51" caption="Left"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_16.xml" name="Task_16"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general" userid="JK">
   <A:start>2001 8 7 11</A:start>
   <A:finish>2001 8 7 12</A:finish>
   <A:supertask name="Task_1" />
   <A:user>JK</A:user>
   <A:predecessor name="Task_5" />
   <A:successor name="Task_19" />
   <A:output name="Artifact_17" />
  - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_18" type="out">
    - <A:description>
      - <![CDATA[
      ??Event_desc
        ]]>
     </A:description>
   </A:event>
 </A:task>
- <A:task activityID="54" caption="Left Special"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_19.xml" name="Task_19"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general" userid="JK">
   <A:start>2001 8 7 12</A:start>
   <A:finish>2001 8 7 13</A:finish>
   <A:supertask name="Task_1" />
   <A:user>JK</A:user>
   <A:predecessor name="Task_16" />
   <A:successor name="Task_10" />
   <A:output name="Artifact_20" />
  - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_21" type="out">
    - <A:description>
      - <![CDATA[
      ??Event_desc
        ]]>
     </A:description>
   </A:event>
 </A:task>
- <A:task caption="Get Fasteners"                                    8472
    link="Sample_Project_Plans/Logic_Branch_Project/Task_20.xml" name="Task_20"
    owner="Assembler"
    type="general" userid="JK">
   <A:start>2001 8 7 10</A:start>
   <A:finish>2001 8 7 11</A:finish>
   <A:supertask name="Task_1" />
   <A:user>JK</A:user>
   <A:predecessor name="Task_2" />
   <A:successor name="Task_5" />
   <A:output name="Artifact_22" />
  - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_23" type="out">
    - <A:description>
      - <![CDATA[
      ??Event_desc
        ]]>
     </A:description>
   </A:event>
```

8450

8460

8470

TOTEGO-T0054660

FIG. 85

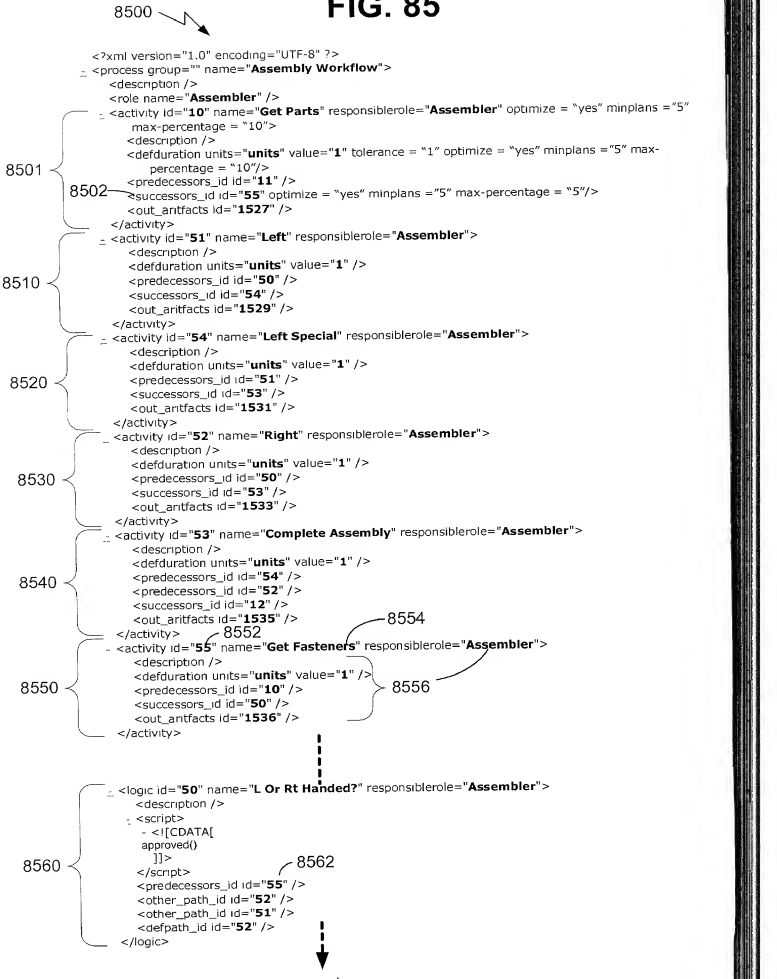
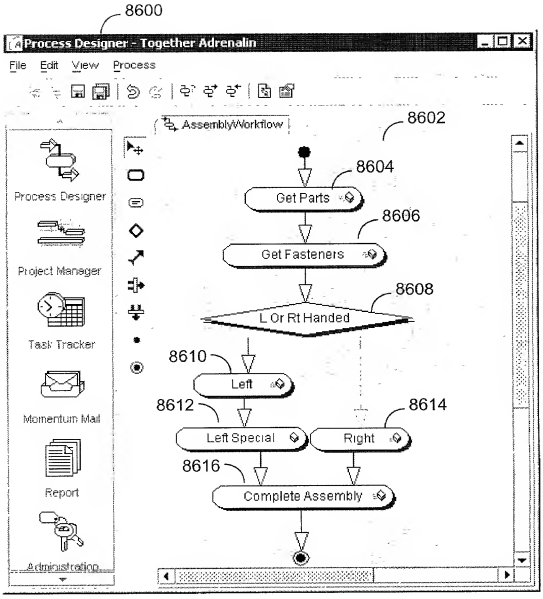

8500
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
<description />
<role name="Assembler" />
<activity id="10" name="Get Parts" responsiblerole="Assembler" optimize = "yes" minplans ="5" max-percentage = "10">
<description />
<defduration units="units" value="1" tolerance = "1" optimize = "yes" minplans ="5" max-percentage = "10"/>
<predecessors_id id="11" />
<successors_id id="55" optimize = "yes" minplans ="5" max-percentage = "5"/>
<out_artfacts id="1527" />
</activity>
<activity id="51" name="Left" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="54" />
<out_artfacts id="1529" />
</activity>
<activity id="54" name="Left Special" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="51" />
<successors_id id="53" />
<out_artfacts id="1531" />
</activity>
<activity id="52" name="Right" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="50" />
<successors_id id="53" />
<out_artfacts id="1533" />
</activity>
<activity id="53" name="Complete Assembly" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="54" />
<predecessors_id id="52" />
<successors_id id="12" />
<out_artfacts id="1535" />
</activity>
<activity id="55" name="Get Fasteners" responsiblerole="Assembler">
<description />
<defduration units="units" value="1" />
<predecessors_id id="10" />
<successors_id id="50" />
<out_artfacts id="1536" />
</activity>
<logic id="50" name="L Or Rt Handed?" responsiblerole="Assembler">
<description />
<script>
<![CDATA[
approved()
]]>
</script>
<predecessors_id id="55" />
<other_path_id id="52" />
<other_path_id id="51" />
<defpath_id id="52" />
</logic>
8501
8502
8510
8520
8530
8540
8550
8552
8554
8556
8560
8562

FIG. 86


8600
Process Designer - Together Adrenalin
File Edit View Process
Process Designer
Project Manager
Task Tracker
Momentum Mail
Report
Administration
AssemblyWorkflow
8602
8604
Get Parts
8606
Get Fasteners
8608
L Or Rt Handed
8610
Left
8612
Left Special
8614
Right
8616
Complete Assembly